DEVELOPMENT OF TECHNOLOGY FOR MODELING OF A 1/8-SCALE DYNAMIC MODEL OF THE SHUTTLE SOLID ROCKET BOOSTER (SRB)

by

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by
Grumman Aerospace Corporation
Bethpage, New York 11714

Langley Research Center Hampton, Virginia 23665

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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• Page 22, The column vector on the right of the first matrix equation should be changed to indicate that it represents reaction forces at the support points as follows:

$$\left\{\begin{array}{c} \mathbf{R_1} \\ \boldsymbol{\theta_1} \\ \mathbf{Z_1} \\ \mathbf{R_2} \\ \boldsymbol{\theta_2} \\ \boldsymbol{\theta_3} \end{array}\right\} \qquad \begin{array}{c} \bullet \left(\begin{array}{c} \mathbf{F_{R_1}} \\ \mathbf{F} \, \boldsymbol{\theta_1} \\ \mathbf{F} \, \mathbf{Z_1} \\ \mathbf{F} \, \mathbf{Z_1} \\ \mathbf{F} \, \boldsymbol{\theta_2} \\ \mathbf{F} \, \boldsymbol{\theta_2} \\ \mathbf{F} \, \boldsymbol{\theta_3} \end{array}\right)$$

- Page 32, Reference in the first statement, change from Reference 5-1 to Reference 5-5
- Page 34, Reference 5-6, delete and change to:
 MacNeal, R. H. "The NASTRAN Theoretical Manual" NASA SP 221(01)
 December 1972.

ABSTRACT

This report describes a NASTRAN analysis of the solid rocket booster (SRB) substructure of the space shuttle 1/8-scale structural dynamics model.

The NASTRAN finite element modeling capability was first used to formulate a model of a cylinder 10 in. radius by a 200 in. length to investigate the accuracy and adequacy of the proposed grid point spacing. Results were compared with a shell analysis and demonstrated relatively accurate results for NASTRAN for the lower modes, which were of primary interest.

A finite element model of the full SRB was then formed using CQUAD2 plate elements containing membrane and bending stiffness and CBAR offset bar elements to represent the longerons and frames. Three layers of three-dimensional CHEXAI elements were used to model the propellant. This model, consisting of 4000 degrees of freedom (DOF) initially, was reduced to 176 DOF using Guyan reduction, and solved in Rigid Format 3 to obtain undamped modes and frequencies. The fundamental NASTRAN mode was 56.4 Hz compared to 58.4 Hz calculated for the beam model.

The model was then submitted for complex Eigenvalue analysis under Rigid Format 7. After experiencing considerable difficulty with attempts to run the complete model, it was split into two substructures. These were run separately and combined into a single 116 degree of freedom A set which was successfully run and are reported herein. The calculated modes included:

- First bending at 56.1 Hz with a critical damping of 2.8%
- First torsion mode at 168.3 Hz with 13.6% of critical damping.

The NASTRAN model in the form of IBM cards, listings, and drawings has been delivered to the NASA Langley Research Center Structures and Dynamics Division.

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ABBREVIATIONS

DOF degrees of freedom

ET external tank

NASTRAN Nasa Structural Analysis System

SRB Solid Rocket Booster

DEVELOPMENT OF TECHNOLOGY FOR MODELING OF A 1/8-SCALE DYNAMIC MODEL OF THE SHUTTLE SOLID ROCKET BOOSTER (SRB)

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INTRODUCTION

This report discusses work that was performed under Master Agreement Contract NAS 1-10635, Task Order 14 for the Structural Mechanics Branch, Structures and Dynamics Division, NASA Langley Research Center, Hampton, Virginia.

The basic objectives of the task were:

- (1) Formulation of an analytical NASTRAN representation of the significant dynamic characteristics of the 1/8-scale model of the shuttle solid rocket booster as specified by drawings and design details developed under NAS 1-10635-11 and later revised under a Rockwell International task
- (2) Construction of the solid rocket booster models
- (3) Participation in a comparison of experimentally determined structural dynamic characteristics with results of the analysis, and proposing modifications in analysis technology as required.
- Part (3) of this task was later modified because of unavailable experimental data and the necessity to devote the time to other analytical tasks.

DESCRIPTION OF THE 1/8-SCALE SOLID ROCKET BOOSTER

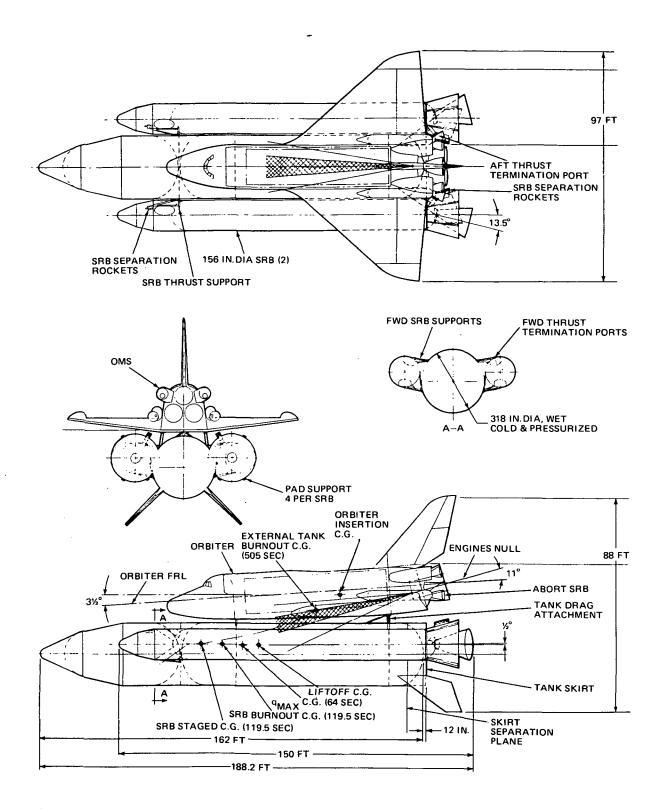
The 1/8-scale shuttle dynamic model is based on Grumman's parallel-burn Space Shuttle Design 619 shown schematically in Fig. 1. A moëkup of the 1/8-scale Shuttle model basic configuration is shown in Fig. 2. A detailed structural arrangement of the prototype SRB is shown in Fig. 3. In simplifying the design, a major objective was to keep the model fabrication cost within target while retaining as many of the significant structural dynamic characteristics as possible. For the alloted funds it was thus impossible to consider a replica at the small scale necessary for testing in the existing NASA/Langley facilities. Hence, only the general characteristics of the major SRB components were simulated without attempting to model local details.

The 1/8-scale solid rocket booster model shown assembled in Fig. 4 and schematically in Fig. 5 consists of three separable parts:

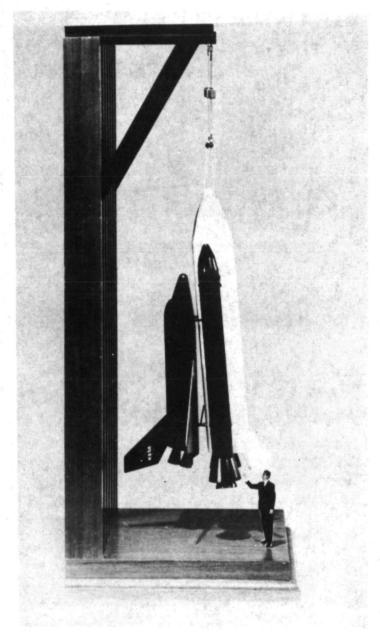
- A forward skirt
- A propellant cylinder
- An aft skirt.

The design is described in Reference 5-1 and in the drawings listed in Table 1. The model described, provides a basis for comparison with the analytical NASTRAN model.

The scaling relationships that must exist between the model and the prototype are shown in Table 2. These directly follow from a dimensional analysis of the various parameters that influence the dynamic behavior of the structure, and from the choice of the model material. Extrapolating prototype behavior from model test data is accomplished by using these scaling relationships directly. It should be noted however, that because of design expediency, some of the scaling rules have been compromised. Some liberty has also been taken in modeling the stiffness characteristics in so far as some lumping was necessary in order to avoid the large expense of exact scaling of very small dimensions. Thus, stiffeners have been lumped to some extent but not eliminated completely.



3-55 T14-1 Fig. 1 Mated Space Shuttle Flight System (Grumman-Proposed Design 619)



S-3 T14-2

Fig. 2 Mockup of 1/8-Scale Shuttle Model During Vertical Suspension

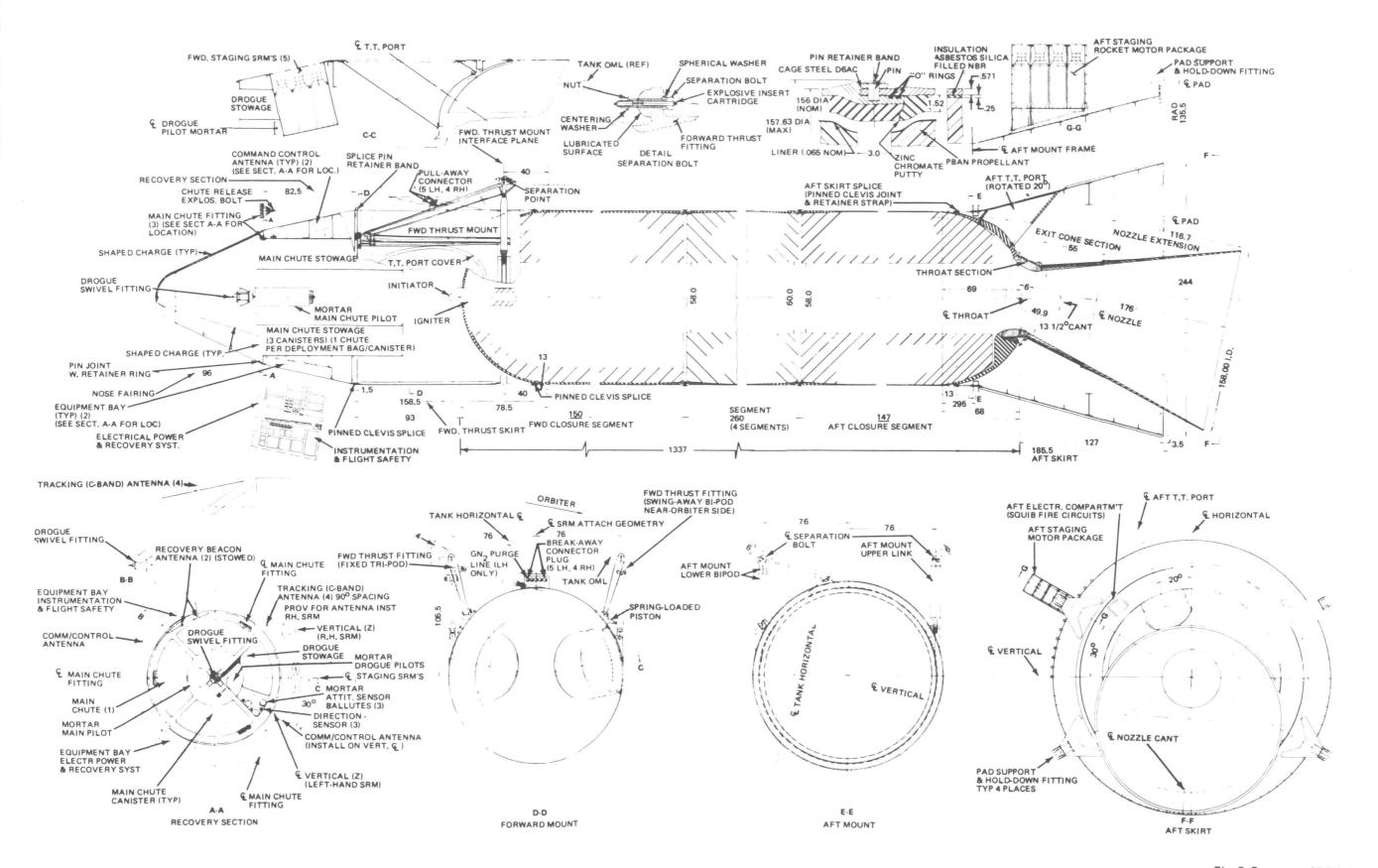
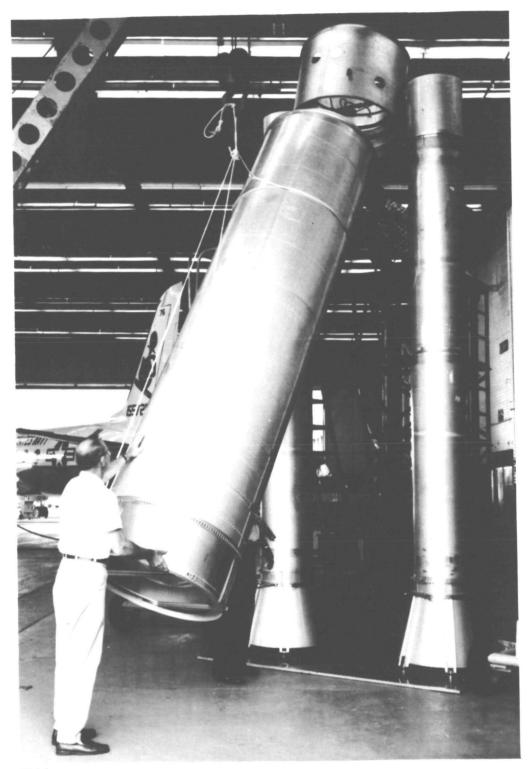


Fig. 3 Prototype SRB Inboard Profi



T14-4
Fig. 4 Assembled 1/8-Scale Model of the Space Shuttle Solid Rocket Booster

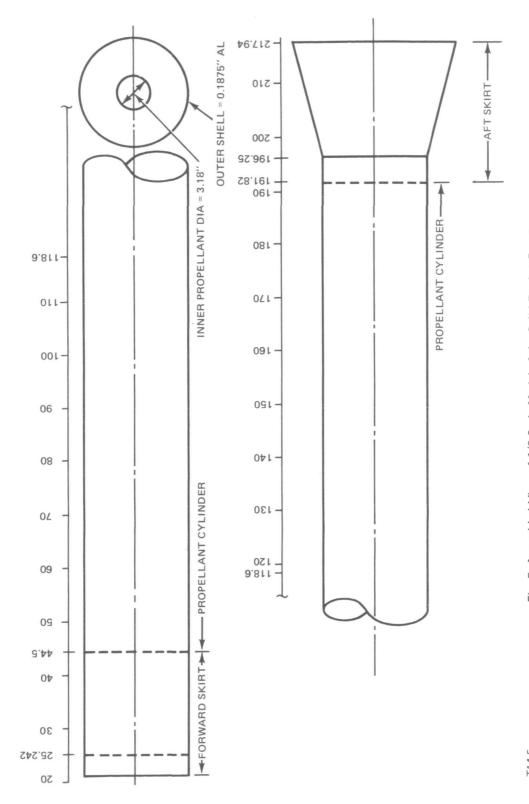


Fig. 5 Assembled View of 1/8-Scale Model of the Solid Rocket Booster

Table 1 Drawing Descriptions of 1/8-Scale Model

Drawing Number	Description
AD383 -500 A	Model Assembly Suspended (3 Sheets)
-501 A	Shuttle Model Assembly
-502 A	External Tank Assembly
-503 A	SRB Assembly
-504 N/C	Orbiter Assembly
-505 N/C	LO ₂ Tank Assembly (2 Sheets)
-506 N/C	Intertank Skirt Assembly
-507 A	LH ₂ Tank Assembly (2 Sheets)
-508 N/C	Aft Skirt Assembly
-510 N/C	SRB Forward Skirt Assembly
-511 N/C	SRB Propellant Cylinder Assembly
-512 A	SRB Aft Skirt Assembly
-514 N/C	LH ₂ Tank Fitting Installation
-515 A	Rings for External Tank
-516 A	Intertank Skirt Frame Assembly
-517 N/C	LH ₂ Tank Frame Assembly
-518 N/C	External Tank Aft Skirt Frame Assembly
-520 A	SRB Rings
-521 N/C	SRB-to-External Tank Thrust Fittings
-522 A	External Tank-to-SRB Thrust Fitting
-525 N/C	Orbiter Forward Section Assembly and Installation
-526 N/C	Orbiter Payload Bay Cover Assembly and Installation
-527 N/C	Orbiter Payload Module Installation
-528 N/C	Orbiter Aft Section Assembly
-529 A	Orbiter Wing Installation
-530 A	Orbiter Fuselage Side and Bottom Skin Panel Assembly and Installation
-531 N/C	Orbiter Keel Assembly and Installation
-532 N/C	Orbiter Wing Beam Carry-Through Assembly
-533 N/C	Orbiter Aft Interstage Fitting Assembly
-534 N/C	Orbiter Engine Support Bulkhead Assembly (2 Sheets)
-535 N/C	Orbiter Fin-Stub Installation
-536 A	Orbiter Fuselage Forward Frame Assembly
-537 N/C	Orbiter Abort SRB Installation
-538 N/C	Model Cosmetic Lines (2 Sheets)
-539 N/C	Orbiter Engine Bulkhead (Station 180.009) Fittings
-541 N/C	Intertank Skirt Assembly (NAR Configuration)
-542 N/C	Frame Installation Intertank Skirt (NAR Configuration)
-543 N/C	SRB Forward Skirt Assembly (NAR Configuration)
-544 N/C	Thrust Fitting-Intertank Skirt (NAR Configuration)
-545 N/C	Thrust Pin (NAR Configuration)
-546	Comparison NAR Shuttle Configuration and 1/8-Scale Dynamic Model

T14-1(T) NOTE:

- (1) Copies of each of the above drawings have been submitted separately to NASA/Langley and to North American Rockwell
- (2) These drawings are available from the Structural Mechanics Branch, Structures and Dynamics Division, NASA/Langley Research Center, Hampton, Virginia, 23365.

Table 2 Pertinent Scaling Relations for 1/8-Scale Model of SRB

	Magn	itude
Physical Quantity	Propellant	Structure*
Length (Overall) and Displacement	8L _m = L _p	8L _m = L _p
Mass Density	$\rho_{\rm m} = \rho_{\rm p}$	$3\rho_{\rm m} = \rho_{\rm p}$
Modulus of Elasticity	$E_{m} = E_{p}$	$3E_m = E_p$
Area	$8^2 A_m = A_p$	$8^2 A_m = 3A_p$
Area Moment of Inertia	$8^4 I_m = I_p$	$8^4 I_m = 3I_p$
Volume	$8^3 V_m = V_p$	$8^{3} V_{m} = 3V_{p}$
Weight	$8^3 \rho_m V_m = \rho_p V_p$	$8^3 \rho_m V_m = \rho_p V_p$
Longitudinal Stiffness	$8^2 E_m A_m = E_p A_p$	$8^2 E_m A_m = E_p A_p$
Bending Stiffness	$8^4 E_m I_m = E_p I_p$	$8^4 E_m I_m = E_p I_p$
Frequency	$f_m = 8f_p$	$f_m = 8f_p$

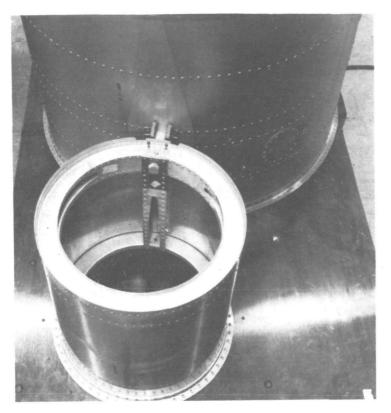
*Aluminum Used in Model to Represent Steel Prototype T14-2(T)

While accurate modeling of the prototype was desirable for extrapolating basic Shuttle dynamic characteristics, another prime object of the study was the NASTRAN dynamic analysis and its correlation with model test data. A complete static and dynamic analysis was made using NASTRAN with the structure modeled to a degree of refinement considered sufficient for preliminary design purposes. Therefore, the need for direct scaling of the prototype design to obtain an exact model in every detail was not considered to be crucial. It should also be pointed out that the Shuttle design was still in a state of flux at the beginning of this study, thus any attempt to model the then current vehicle exactly was not overly beneficial to the Shuttle Project.

Forward Skirt - The forward skirt shown in Fig. 6 is designed to typify the solid rocket booster/external tank (ET) interstage connection of the proposed Rockwell International configuration of Nov. 29, 1972. This was a modification to the original design for the 1/8-scale shuttle model. It is constructed of aluminum, consists of a cylinder 19.5 inches in dia and 21 inches long containing one longeron along the azimuth where it is fastened to the ET. In that local area the skin is increased in two steps from the basic 0.040 in. thickness by a riveted doubler which itself is chem milled. The net result is a multi-step variation in thickness from 0.040 in. to 0.188 in. at the ET connection point. Refer to Fig. 13 for a developed view of the forward skirt. The single longeron is designed to distribute the axial loads. It is a variable cross-sectional area, being a maximum at the forward ring where a single pin is used to fasten the SRB to the ET.

Around the top and bottom of the cylinder are frames consisting of two back-to-back channel members separated and fastened by cylindrical inner spacers. A ring riveted to the bottom of the forward skirt contains provisions for machine screw fasteners every 0.66 in. for attaching to the propellant cylinder.

<u>Propellant Cylinders</u> - Three sets of propellant cylinders were formed and loaded with inert solid propellant to represent different weight configurations. All had a 0.1875 in. thick aluminum shell and were 19.5 in. in dia and 147.32 in. long. This length included the machined rings riveted to the ends for fastening the skirts. The length of propellant material in these cylinders is about 145.4 inches. The propellant weight configurations simulated were for lift-off, maximum dynamic pressure, and end burn. The simulated propellant which consisted of inert PBAN described in



T14-6

Fig. 6 1/8-Scale Solid Rocket Booster Forward Skirt

more detail later was supplied by United Technology Corp (UTC). A photograph showing end views of the two heavier pairs of cylinders for the lift-off and mid-burn weights is presented in Fig. 7. The weight of each cylinder before and after pouring of the simulated propellant as recorded by UTC is shown in Table 3.

Aft Skirt - The aft SRB skirt shown in Fig. 8 is constructed of aluminum and consists of a short cylindrical section and a longer conical section. Skin thickness is 0.062 inches. At the intersection of the conical and upper cylindrical section is the U-shaped ring used for mounting the fittings for the struts attaching the SRB to the ET. At the top of the conical section is the machined ring which mates with the propellant cylinders. The conical section contains four longerons made of double channel sections which terminate in the fittings used to fasten the entire model to the base support structures. At the bottom of the aft SRB skirt, the conical skin is fastened to a ring made of four segments of a channel.

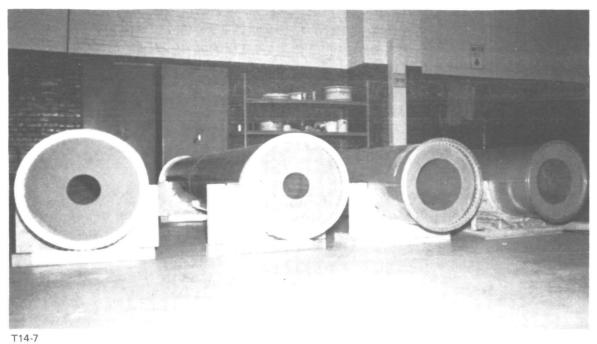
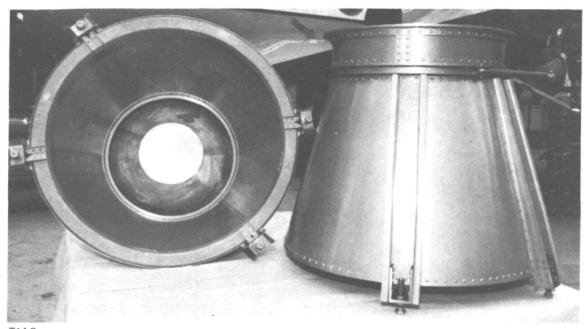


Fig. 7 End View of Propellant Cylinders for 1/8-Scale Model of Solid Rocket Booster

Table 3 Summary of Propellant Cylinder Weights

Propellant Cylinder Serial No.	Weight of Empty Container, Ib	Weight of Container with Liner, lb	Weight of Loaded Cylinders, Ib
1	172.5	179.0	542.0
2	172.0	179.5	580.0
3	172.5	177.0	1720.0
4	173.0	179.5	1706.0
5	173.0	178.0	2526.0
6	172.0	178.5	2520.0

T14-3(T)



T14-8

Fig. 8 1/8-Scale Model Solid Rocket Booster Aft Skirt

Propellant Characteristics - The most significant characteristics of the solid propellant for vibration are the complex moduli corresponding to the range of frequencies encountered. The simulated propellant used for the 1/8-scale model was inert UTI-610 manufactured by United Technology Center Division of United Aircraft Corp. in Sunnyvale, California. This consists of essentially the same binder-fuel-curative components as UTP-3001 propellant used in Titan. Inert sodium chloride and inert ammonium sulphate were substituted for the ammonium perchlorate in the inert UTI-610.

Batch 400-1384 which was used in the 1/8-scale model, yielded samples having a density of 0.0627 lb/cu in., a stress at maximum load of 132 psi and a strain at maximum load of 40 per cent. Estimated tensile and shear properties believed applicable were furnished by UTC (Reference 5-2) and are listed in Table 4.

The moduli vary with both frequency and temperature. The variation with temperature is shown in Fig. 9. The data is applicable for 18° C since the value of at is 1.0. If the temperature should be 5° C higher, then the value of at becomes 1.58, because the log 1.58 = 0.2. To determine the modulus for this temperature at a specific frequency, form the product and find the corresponding value in Table 4. For the analyses described, the Modulus of Elasticity E, was taken as 25,000 and the loss factor, ρ , as 0.52.

Four containers of propellant were poured as samples during the filling of the SRB cylinders. Each sample contained about 8 lb (two quarts) of propellant. These were delivered to the Langley Research Center with the 1/8-scale SRB model.

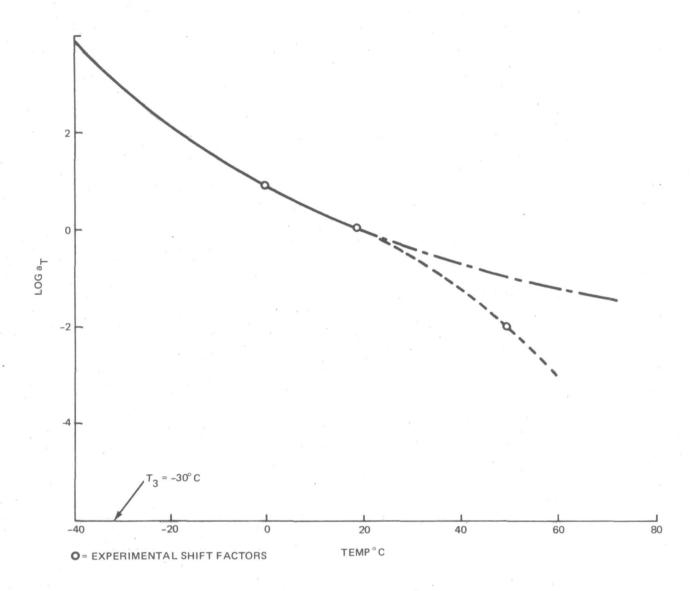
Table 4 Inert Propellant Properties of UTI-610 (UTP 6055/1141) *

	E = E	′+iE″	G = G'	+ iG''	G''
a _T f (Hz)	E' (psi)	E'' (psi)	G' (psi)	G'' (psi)	$\rho = G'$
5	9,618	6,110	3,206	2,037	0.64
10	12,831	8,191	4,277	2,730	0.64
20	17,052	9,429	5,684	3,143	0.55
30	19,313	10,140	6,438	3,380	0.52
40	20,995	10,978	6,998	3,659	0.52
50	22,537	11,830	7,512	3,977	0.52
60	24,048	12,592	8,016	4,197	0.52
70	25,540	13,214	8,513	4,405	0.52
80	26,996	13,678	9,000	4,559	0.51
90	28,375	13,991	9,465	4,664	0.49
100	29,719	14,167	9,966	4,722	0.48
200	38,354	12,285	12,785	4,095	0.32
300	41,744	9,560	13,915	3,187	0.23
400	43,231	7,622	14,410	2,541	0.18
500	43,988	6,282	14,663	2,094	0.15

^{*}Taken from Ref. 5-2.

T14-4(T)

E = Complex Modulus of Elasticity; G = Complex Shear Modules



T14-9 Fig. 9 WLF and Experimental Shift Factors for UTP 6055/1141 Inert Propellant

NASTRAN FINITE ELEMENT MODEL OF SRB

The idealization of the solid rocket booster, shown in Fig. 10, is a NASTRAN generated plot of the outer shell. The locations of the frames and longerons of the experimental model are indicated by the number and symbol key. The dimensions used to model the frames and longerons are shown in Fig 11. Figure 12 shows the complete finite-element idealization including:

- All the properties
- Geometry of the model
- Tie down points
- Summary of the type and number of elements.

Plate elements (CQUAD2) containing membrane and bending stiffness are used to represent the outer skin. The thickness of the plate elements in the forward skirt includes the effects of the doubler and various straps and plates. Figure 13 shows a developed view. Offset bar elements (CBAR) are used to represent the frames and longerons. Three heavy frames exist: the first at STA 44.5 which is the forward skirt-propellant cylinder connection; the second at STA 191.820 which is at the aft skirt-propellant cylinder connection; and the third at STA 196.250 which is the transition to the conical section of the aft skirt (also the SRB/ET interstage connection). Three-dimensional elements (CHEXAI) are used to model the propellant. Three layers of elements (in the radial direction) are used in the full propellant load (lift-off) condition. The incompressibility of the solid fuel is approximated by using a Poisson ratio of 0.49.

A preprocessor has been developed to generate the finite-element model. This program generates:

- (1) A cylindrical shell
- (2) A cylindrical shell with a solid cylindrical interior
- (3) A cone-shaped shell (used for the aft skirt)

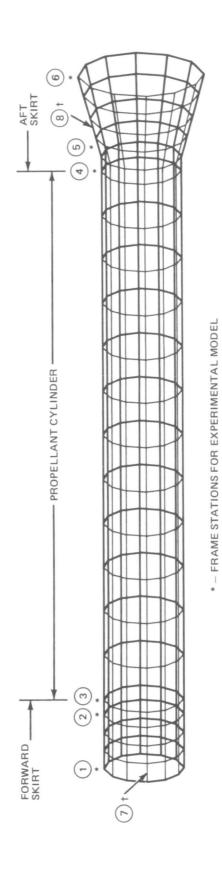


Fig. 10 NASTRAN Idealization of 1/8-Scale Solid Rocket Booster Model

T14-10

t - LONGERON DESIGNATIONS FOR EXPERIMENTAL MODEL

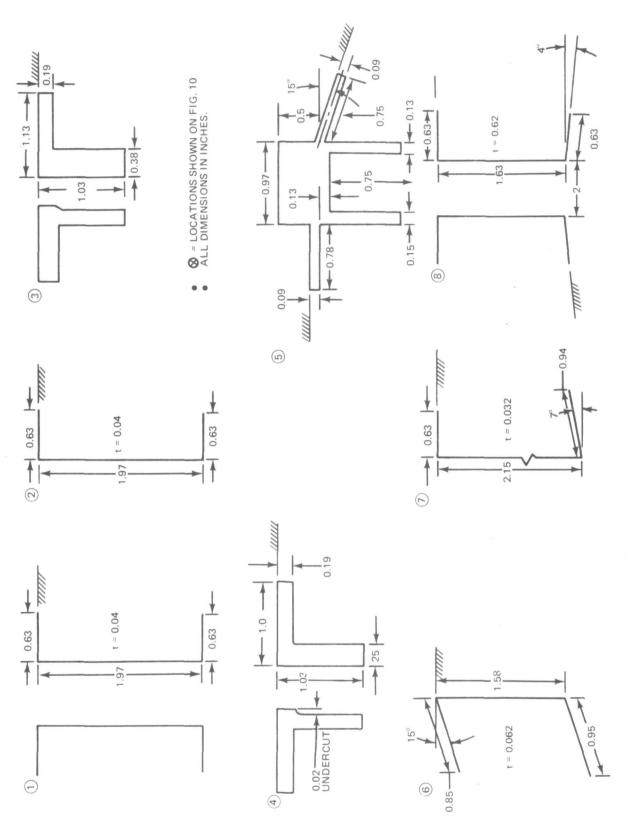
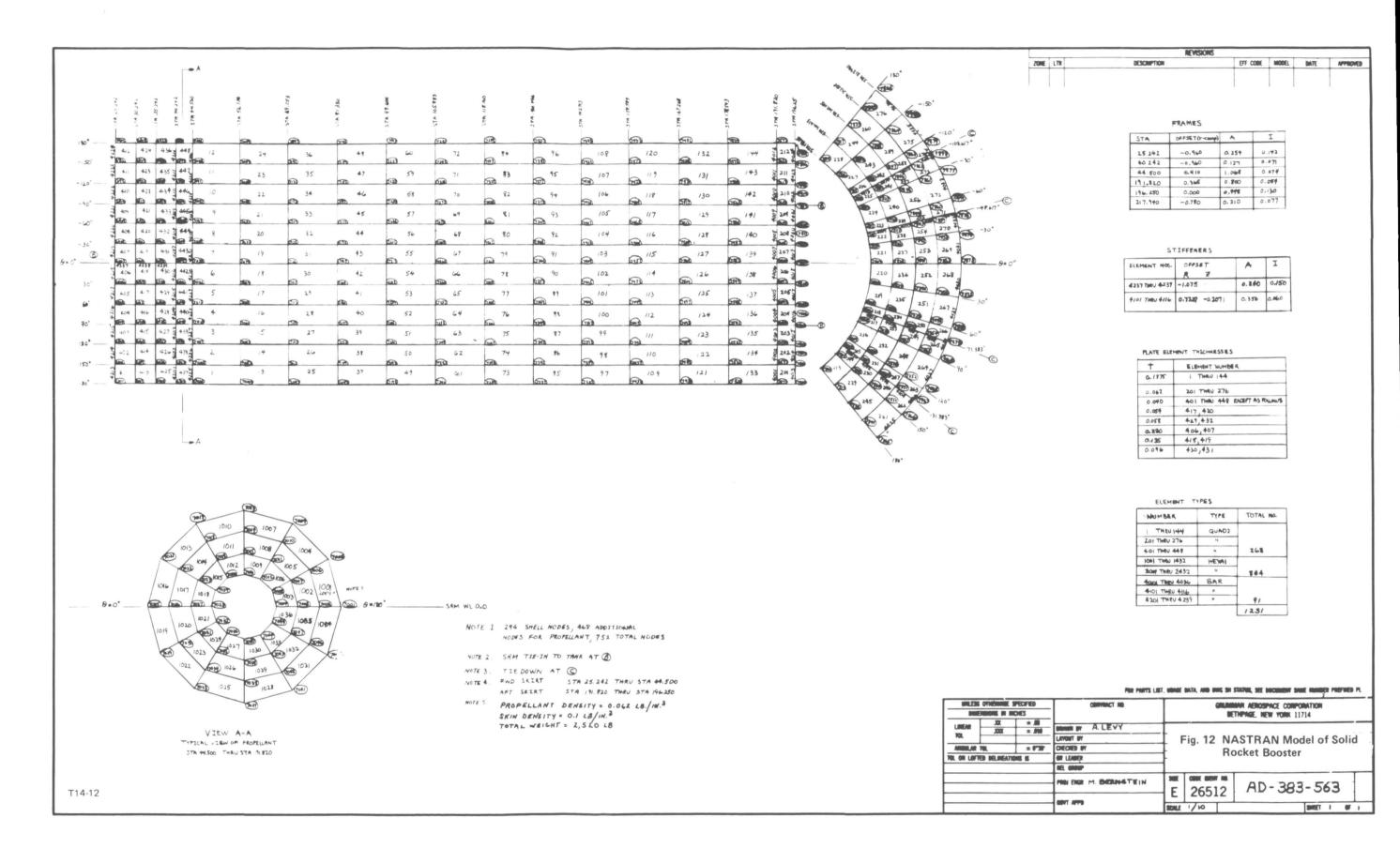


Fig. 11 Frame and Longeron Sections - Schematic

T14-11



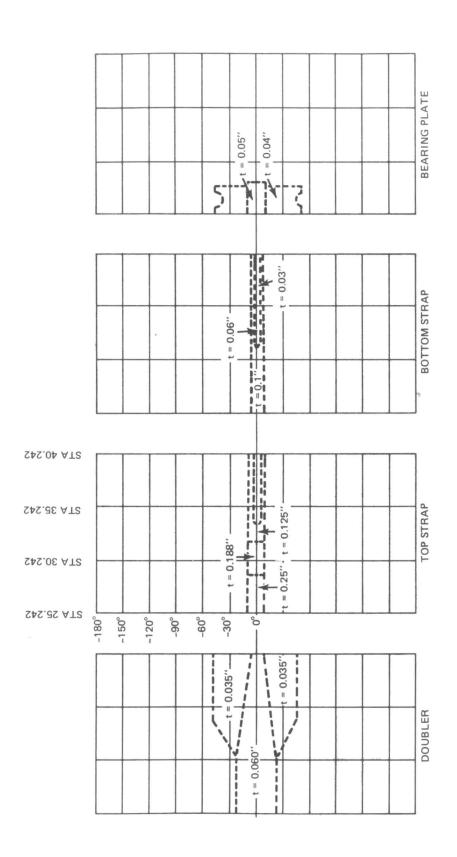


Fig. 13 Idealization of 1/8-Scale Model Solid Rocket Booster Forward Skirt

Minor changes are made in the forward skirt model to adjust the thickness of the various elements.

In order to obtain a guide for the accuracy of the NASTRAN program and the adequacy of the SRB finite-element model, the SRB was modeled as a cylinder of radius 0.25 m. (10 in.) and length 5.08 m. (200 in.). The finite-element idealization consisted of 21 bays along the length and 12 bays around the circumference. The following table represents a comparison of results between NASTRAN using the Givens method (Rigid Format 3), Grumman's STARS-2V program (Ref. 5-3) and NASA Langley's SRA program (Ref. 5-4). The STARS -2V and SRA programs are based on thin-shell orthotropic theory. The accuracy of the NASTRAN results are relatively good for the lower modes, which are of primary interest, and depend upon the relative complexity of the Eigenvectors.

Empty Cylinder Vibration Analysis

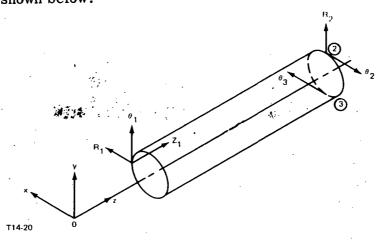
Frequency, Hz			
Stars-2V	SRA	NASTRAN (Givens method)	% Error
52.0 (n = 2, 1st)	51.56 (n = 2, 1st)	55.2	6
52.4 (n = 2, 2nd)	51.66 (n = 2, 2nd)	54.9	5
66.6 (n = 2, 3rd)	66.04 (n = 2, 3rd)	73.9	11
119.3 (n = 1, 1st)	120.46 (n = 1, 1st)	122.5	. 3
120.4 (n = 2, 4th)	_	171.8	42
147.1 (n = 3, 1st)	_	165.1	12

n = number of circumferential full waves; 1st, 2nd etc. = number of lateral half waves.

T14-7(T)

After establishing confidence in the number and spacing of the grid points, a model was formulated representing the complete SRB including full propellant elements, forward skirt, and aft skirt. This was submitted for NASTRAN real Eigenvalue analysis using Rigid Format 3. As part of this analysis, an equilibrium check

is made on the entire SRB model (skin plus propellant) after the generation of the reduced stiffness and mass matrices. For this purpose, temporary rigid body supports are included as shown below:



Equilibrium matrices for the free degrees of freedom are formulated and represent the resultant forces about a chosen point (0). These resultants are compared to the overall resultants at the support points (shown below).

$$\begin{cases} F_{x} \\ F_{y} \\ F_{z} \\ M_{x} \\ M_{y} \\ M_{z} \end{cases} = \begin{bmatrix} 1.0 & 0.0 & 0.0 & 0.0 & -1.0 & 0.0 \\ 0.0 & 1.0 & 0.0 & 1.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & 1.0 & 0.0 & 0.0 & 0.0 \\ 0.0 & -Z_{1} & 0.0 & -Z_{2} & 0.0 & 0.0 \\ Z_{1} & 0.0 & R_{1} & 0.0 & -Z_{2} & Z_{3} \\ 0.0 & R_{1} & 0.0 & 0.0 & R_{2} & R_{3} \end{bmatrix} \begin{cases} R_{1} \\ \theta_{1} \\ Z_{1} \\ R_{2} \\ \theta_{2} \\ \theta_{3} \end{cases}$$

where

į	Node	R _i	θ_{i}	z _i
1	6907	9.75	0.0	25.242
2	7805	9.75	90.0	196.25
3	7813	9.75	-90.0	196.25

T14-8(T)

A detailed description of the DMAP Alter package used for this purpose is presented in Ref. 5-5.

The undamped vibrational modes for the full cylinders are listed in the tables that follow. The model consisted of 4,000 DOF which were reduced to 176 DOF after a Guyan reduction was employed. The modes of most interest are the 1st and 2nd

bending modes and the longitudinal rod and thickness shear mode. The latter involves extension of the outer case and extension and shear deformation of the propellant. Figure 14 shows shematic cross-sectional views of the lateral and longitudinal vibrational motion, and Fig. 15 presents orthographic views of the motion obtained from the NASTRAN analysis. The table titled Vibration Analysis of Full Propellant Cylinder-Undamped, includes the results for simple beam theory for the modes of interest (bending and longitudinal) based on the composite properties of the SRB cylinder.

Using a structural damping factor of 0.52 for the propellant elements which is the material property determined from Table 4, the complex Eigenvalues for the lowest bending and longitudinal modes were obtained using Rigid Format 7. These are compared with the undamped modes as tablulated in the second table below. Simple beam theory (no shear) predicts a value of 1/Q = 0.028, which agrees with the bending mode damping coefficient, c/cc. The difference between this value and that for the longitudinal mode is due to the thickness shear effects. (Refer to Fig. 14b).

Vibration Analysis of Full Propellant Cylinder — Undamped

	Fr	equency, Hz
Mode	NASTRAN	Simple Beam Theory
n = 1, m = 1	56.4	58.4
n = 0, torsion	171.4	_
n = 1, m = 2	173.0	161.0
n = 0, longitudinal	196.1	180.2

T14-9(T)

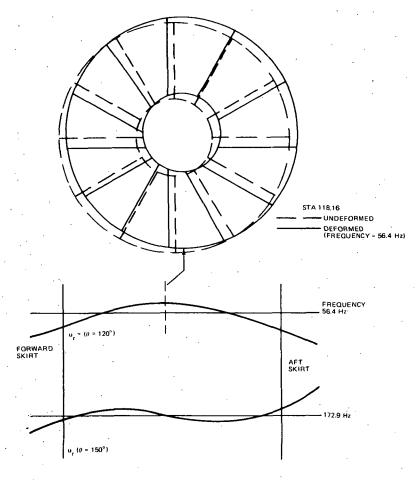
Vibration Analysis Using Damped Solid Finite Elements

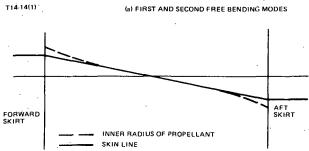
	Frequency, Hz		Damping value,	
Mode	Undamped	Damped	1/Q*	
Bending — 1st	56.38	56.39	0.027	
Longitudinal — 1st	196.0	197.1	0.056	

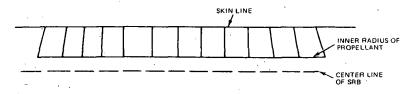
T14-10(T)

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William.



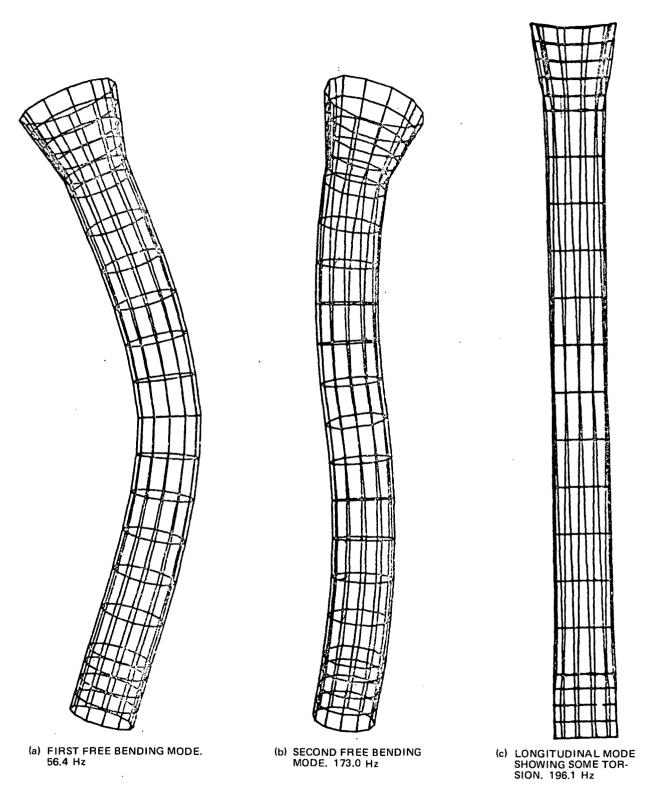




(b) FREE LONGITUDINAL ROD MODE SHOWING LONGITUDINAL THICKNESS SHEAR DEFLECTION (196.0 Hz)

T14-14(2)

Fig. 14 Shapes for SRB Modes



T-14-15 Fig. 15 Shapes for SRB Bending Modes

After these initial two Eigenvalues and Eigenvectors were obtained, the NASTRAN model was submitted unsuccessfully several times in an effort to calculate other modes. The model during these submissions had 3,114 degrees of freedom (DOF) in the F set and was set up to omit 2,902 coordinates with 212 remaining. The OMIT Set was finally eliminated but the run took 70 min of CPU time. Attempts to run from the checkpoint tape were not successful, therefore the model was split into two parts. The forward portion consisted of 2,508 DOF in the G set (1,746 in the F set) and 282 in the A set. The NASTRAN data used in this submission is listed in Appendix A. This portion of the model is shown in Fig. 16. The aft portion consisted of 2,310 DOF in the G set (1,548 in the F set) and 266 in the A set. The NASTRAN data used is also included in Appendix A. Figure 17 presents a view of the aft portion of the model. In order to keep the computation time at a reasonable level, these half structure models were not permitted to proceed into the Eigenvalue routines, as may be noted from the alter statements in the Executive Control Data which effectively eliminates all steps between 89 and 162, and 164 through 167. Instead, the submissions were scheduled for EXIT after DMAP statement 88. The reduced models of both portions of the SRB were then copied onto tapes. The DMAP statements and data for the tape copy run are also listed in the appendix. The combined NASTRAN model was then reduced to 116 DOF and successfully ran in Rigid Format 7. Twelve Eigenvalues were obtained (Table 5), using 17 CPU min of computer time. A description of each mode is also shown in the table. NASTRAN plot capability has not been extended to Rigid Format 7. The DMAP Alter statements in the Executive Control Cards for this submission did include statements designed to plot the real part of the complete Eigenvector but they did not function properly for this run, and only two plots were generated. The undeformed model is shown in Fig. 18, and the first bending mode in Fig. 19. These views are included to demonstrate that the DMAP alter statements will work.

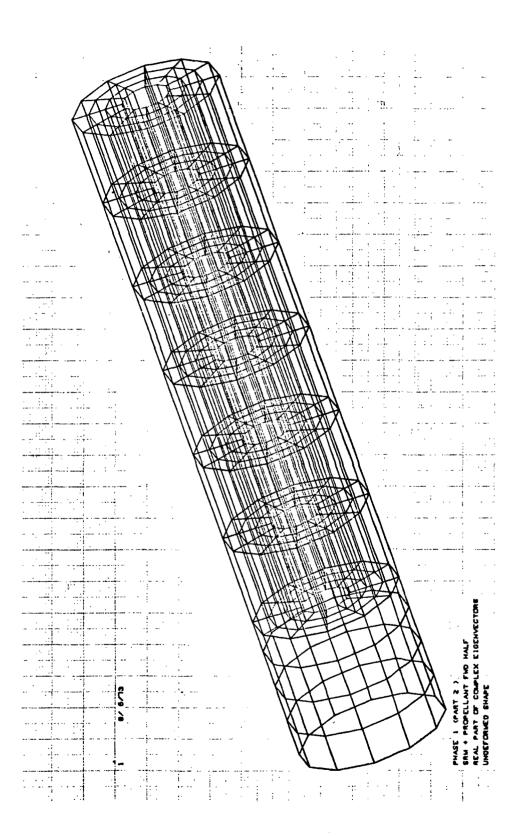
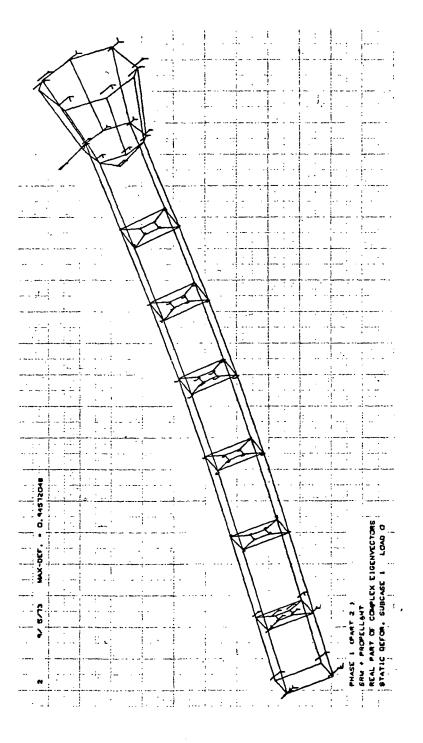


Fig. 17 1/8-Scale Model SRB Finite Element Representation – Aft Half

Table 5 Summary of SRB Vibration Analysis (Full Propellant Load [Lift-Off])

Mode Number	Frequency (Hz)	Damping (C/C _c)	Description				
1	56.15	0.028	1st Bending Mode about Z Axis				
2	56.15	0.028	1st Bending Mode about Y Axis				
3	136.65	0.056	2nd Bending Mode about Y Axis				
4	136.67	0.056	2nd Bending Mode about Z Axis				
. 5	168.29	0.136	1st Torsion Mode				
6	195.11	0.053	1st Axial Mode				
7	224.28	0.067	3rd Bending Mode about Y Axis				
8	224.42	0.067	3rd Bending Mode about Z Axis				
9	245.65	0.005	Local Mode of Aft Skirt Longerons				
10	269.35	0.005	Local Ring Mode of Aft Skirt				
11 .	320.87	0.116	4th Bending Mode about Z Axis				
12	321.21	0.116	4th Bending Mode about Y Axis				

T14-5(T)



OBSERVATIONS AND CONCLUSIONS

- The NASTRAN model weight was not changed by the Guyan reduction procedure. Table 6 compares the output of the Grid Point Weight Generator (MO) with the weights determined from the reduced mass matrix (MOGG). The latter is determined from the L set (Reference 5-1).
- The NASTRAN model reduced stiffness matrix has adequately low value for the (X) Matrix. This indicates no constraint errors as discussed in Subsection 3.5.5 of the NASTRAN Theoretical Manual (Ref. 5-6).
- Experience has indicated that NASTRAN Eigenvalue problems should be kept to less than 250 DOF in the A set for both an IBM 370-165 with less than 400K core and a CDC 6600 with less than 300K (octal) core. This is particularly true of the Inverse Power or Determinant methods which are to be used as required in Rigid Format 7. The complex arithmetic in Rigid Format 7, while necessary to calculate the damping, results in using two storage locations for each DOF, therefore these numbers would have to be halved, leaving 125 as the practical upper limit.
- The large Guyan reductions required, limit the adequacy of the model, particularly for shell modes. The model does not take advantage of symmetry since the original intent was to use substructuring procedures to couple this model to the remainder of the shuttle. Subsequent work at Langley has shown that limiting the model to 90° between vertical and lateral planes of symmetry (and/or antisymmetry), employing harmonic reduction, and planning for modal coupling, would allow more adequate definition of the shell modes.
- No work was done in comparing analysis with experiments. This task was modified to eliminate that objective due to unavailable experimental data and the necessity to devote the time to other analytical tasks.

Table 6 Weight and Residual Error Comparisons

	SRB For	ward Half	SRB A	ft Half	Combined SRB Phase II – 116 DOF MOGG		
Direction	МО	MOGG	МО	MOGG			
X	1253.79	1253.78	1267.57	1267.56	2521.34		
Y	1253.79.	1253.79	1267.57	1267.57	2521.37		
Z	1253.79	1253.78	1267.57	1267.56	2521.34		
R_{X}	2.5399x10 ⁶	2.5399×10 ⁶	2.222×10 ⁶	2.2219x10 ⁶	4.76185x10 ⁶		
R	8.8320×10 ⁶	8.8322x10 ⁶	2.988×10 ⁷	2.9879x10 ⁷	3.8710x10 ⁷		
RZ	8.6925×10 ⁶	8.6923×10 ⁶	3.0086x10 ⁷	3.0086x10 ⁷	3.8778×10 ⁷		

Weight Comparison

MO = Weight from Grid Point Weight Generator for Original Model Before Reduction MOGG = Weight from Reduced Mass Matrix Used in Dynamic Analysis

Parameter	SRB Forward Half	SRB Aft Half	Combined SRB Phase II — 116 DOF
X	None > 10 ⁻⁶	None $> 10^{-6}$	None > 10 ⁻⁶
	None > 10 ⁻⁶	None $> 10^{-4}$	None > 10 ⁻⁴

Residual Error Comparison

X = Rigid Body Stiffness Matrix (Ref. 5-6), Should = 0 Ext = Resultant about Arbitrary Origin of X (Ref. 5-5), Should = 0

T14-6(T)

REFERENCES

- 5-1 Bernstein, M. et al, "Design of a Space Shuttle Structural Dynamics Model," NASA CR 112205, Rev. A, 1973.
- 5-2 United Technology Center Letter, GRS-27-73M, 13 April 1973.
- 5-3 Svalbonas, V., "Numerical Analyses of Stiffened Shells of Revolution Theoretical Manual for STARS-25 -2B -2V Programs," IOM 000-STMECH038, Grumman Aerospace Corp., 10 May 73.
- 5-4 Cohen, G.A, "User Document for Computer Programs for Ring-Stiffened Shells of Revolution", NASA CR 2086, 1973.
- 5-5 Bernstein, M. et al, 'NASTRAN Analysis of the 1/8-Scale Shuttle Dynamic Model', NASA TMX 2893.
- 5-6 McCormick, C.W., 'The NASTRAN Users' Manual', Level 15.5.

APPENDIX

The Appendix contains the following information:

- NASTRAN data for SRB Aft Half Model 32 pages
- NASTRAN data for SRB Forward Half Model 30 pages
- NASTRAN data for SRB Copy Run 5 pages
- NASTRAN data for SRB Combined Model 212 DOF for Phase II, Part 1 - 17 pages
- NASTRAN data for SRB Combined Model 116 DOF for Phase II, Part 1 - 17 pages
- NASTRAN data for SRB Combined Model 116 DOF for Phase II, Part 2 - 14 Pages
- Complex Eigenvalue Summary from 116 DOF Phase II, Part 2 Run - 1 page.

SOLID ROCKET BOOSTER AFT HALF NASTRAN DATA Z703218

NASTRAN EXECUTIVE CONTROL DECK ECHO

ID PHAS	E1 SRMR1A
CHKPNT	YES
TIME	60
APP	DISP
SQL	7,0
DIAG 2	•7•8•13•14•19•21•22
ALTER 2	-2s PARAMETER DEFAULTS
PARAM	//C.N.NOP/V.Y.NOSUB#0
PARAM	//c,N.NOP/V,Y,TPCOPY#-1
PARAM	//C.N.NDP/V.Y.SUBGK#-1
PARAM	//C.N.NDP/V.Y.SUBK4#-1
PARAM	//C.N.NOP/V.Y.SUBB#-1
PARAM	//C.o.N.O.P/V.o.N.TRUE#-1
ALTER 2	25.27
CHKPNT	EST-GEI-ECPT-GPCT
PARAM	//C.N.SUB/V.N.COUPLE/V.Y.NOSUB/C.N.1
PARAM	//C.n.nup/v.n.nuk4GG#-1
PURGE	KGGX,K4GG.GPST,DGPST/NDS1MP
CHKPNT	KGGX.KAGG.GPST.DGPST
COND	L30.NOSIMP
COND	L25A,GENEL
COND	L25B.COUPLE
LABEL	L25A
PURGE	OGPST/TRUE.
CHKPNT	OGPST
LABEL	L258
ALTER 3	30,31
CHKPNT.	KGGX.K4GG.GPST
LABEL	L30
ALTER 3	34.35
PARAM	//C.N.AND/V.N.NDBG/V.N.NDBGG/V.V.VBB
PARAM	//C.N.AND/V.N.NURK4/V.Y.SUBGK/V.Y.SUBK4
PARAM	//C,N,AND/V,N,NDK4/V,N,NDRK4/V,N,NDK4GG
COND	L34A.NDMGG
JUMP	L34B
LABEL	<u>L34A</u>
COND	ERROR3.COUPLE
LABEL	£34R
PURGE	BNN . BFF . BAA . BGGY/NUBG
PURGE	K4GGY.K4NN.K4FF.K4AA/NUK4
CHKPNT	BGGY.K4GGY.K4NN.K4FF.K4AA.MGG.BGG.BNN.BFF.HAA
ALTER 3	37.37
COND	LBL1 • NOMGG
ALTER 4	2,42 \$ 1F COUPLING RUN.COMBINES SUBSTRUCTURES.
PURGE	CPG1.KI.MI.KGGI.MGGI.KGGS.MGGS.KGT.MGT/COUPLE
PURGE	K4GGS.K4GGI.K4GT.GIKI.K4II.K4I/COUPLE
PURGE.	HI.BGGS.BGGI.BGT.GFAC.KFAC.BFAC/COUPLE
COND	LPC9.COUPLE & SKIP.NOT A COUPLING RUN
	//C.N3/C.N.9/V.Y.TPNAME9 & LIST TAPE & REWIND

```
//C.N.NOP/V.N.PASS#1 $ INITIAL LOOP PASS PARAMETER
 PURGE
         KAGGS.KAGGI.KAGT.GIKI.KAII.KAI.GFAC.KFAC/NORKA
 PURGE
         GIKI-GFAC/SUBGK/K41-KFAC/SUBK4/BGGS-BGGI-BGT-BFAC/SUBB
 LIMP
         LOOPC
 LABEL
         LOOPC
                 $ TOP OF LOOP
         //C.N.SUB/V.N.PASS1/V.N.PASS/C.N.2
 PARAM
 INPUTT1 /CPGI,KI-NI../C.N.O/C.N.9 $
        LPC1.PASSI
 COND
 JUMP
         LPC3
 LABEL
         LPC1
 MERGE.
         +++K1+CPGI+/KGGS/C+N+-1/C+N+2/C+N+6
         ...MI.CPGI./MGGS/C.N.-1/C.N.2/C.N.6
 MERGE .
         LPC2 . NORK4
 COND
 MERGE .
         ****CPG1*/K4GGS/C*N*-1/C*N*2/C*N*6
         LPC2
 LABEL
 COND
         LPC3.SUBB .
 MERGE .
         ....CPGI./BGGS /C.N.-1/C.N.2/C.N.6
 LABEL
         LPC3
                   LPC4.PASS1
 COND .
 MERGE .
         ...KI.CPGI./KGGI/C.N.-1/C.N.2/C.N.6
MERGE .
         ...M1.CPG1./MGGI/C.N.-1/C.N.2/C.N.6
 ADD
         KGGS.KGGI/KGT $
 EQUIV
         KGT.KGGS/TRUL
         MGGS.MGGI/MGT.S
 ADD
 EQUIV
         MGT.NGGS/TRUE
LABEL
         LPC4
 COND
         LPC7.NORK4
 COND
         LPC5.SURGK
 PARAML
            GFAC//C.N.DMI/C.N.1/V.N.PASS/V.N.GIR $
 PARAMR
        //C.N.EQ/C.N.O.O/C.N.O.O/V.N.GIR/V.N.DUTC/V.N.INCI/V.N.INC2/
         V.N.NOGI ST
 PURĠE
         GIKI/NOGI .
       LPC5.NOGI
 COND
 PARAMR
         //C.N.COMPLEX/C.N.O.O/V.N.GIR/C.N.O.O/V.N.GI $
 ADD
         KI./GIKI/V.N.GI &
LABEL __LPC5
 COND
        LPC6.SUBK4
 PARAML
            KFAC//C.N.DMI/C.N.1/V.N.PASS/V.N.KAR S
 PARAMR
         //C+N+E4/C+N+0+0/C+N+0+0/V+N+K4R/V+N+BUTC/V+N+1NC1/V+N+INC2/
         V.N.NOK41 5
 PURGE
         K41/NUK41
COND
        LPC6.NOK41
 INPUTT1 /K41 ... /C . N. 0/C . N. 9 5
 LABEL
         LPC6.
ADD
        G1K1 . K41/K411
 MERGE.
         +++K411,CPG1+/K4GG1/C+N+-1/C+N+2/C+N+6
 ADD
         K4GGS.K4GG1/K4GT
EQUIV
        K4GT.K4GGS/TRUE
 LABEL
         LPC7
 COND 1
         LPC8.SUBB
```

```
PARAML
          BFAC//C.N.DMI/C.N.1/V.N.PASS/V.N.BIR &
       //C.N.EQ/C.N.O.O/C.N.O.O/V.N.BIR/V.N.DUTC/V.N.INC1/V.N.INC2/
PARAMR
       V.N.NOBJ S
       LPC8 . NOBT
COND
INPUTT1 /BI..../C.N.O/C.N.9 $
        ...BI.CPG1./BGG1/C.N.-1/C.N.2/C.N.6
MERGE.
        BGGS.BGG1/BGT $
ADD
EQUIV
        BGT.BGGS/TRUE
LABEL
       LPCB
       //C.N.ADD/V.N.PASS/V.N.PASS/C.N.I
PARAM
PARAM
        //C.N.SUB/V.N.SKIP2/V.Y.NOSUB/V.N.PASS
        LPC9.SKIP2
COND
       L00PC •20
REPT
LABEL
       LPC9
CHKPNT
        KGGS.MGGS.K4GGS.BGGS
ADD
        KGGX,KGGS/KGGY $
CHKPNI
       KGGY
ADD
        MGG.MGGS/MGGY $
CHKPNT
       MGGY
COND
        LPC11 .NOK4
ADD
        K4GG.K4GGS/K4GGY
CHKPNT
        K4GGY
LABEL
       LPC11
COND
       LPC12,NOBG
ADD
        BGG.BGGS/BGGY
CHKPNT
       BGGY
LABEL
       LPC12
       KGGY.KGG/NOGENL $
EQUIV
ALTER 45,45
SMA3
       GE1.KGGY/KGG/V.N.LUSET/V.N.NOGENL/V.N.NOSIM#1 $
ALTER 51.53
       GM/MPCF1/GO/UMIT/KFS/SINGLE
PURGE
       KGG.KNN/MPCF1/MGGY.MNN/MPCF1/BGGY.BNN/MPCF1/KAGGY.KANN/MPCF1
EQUIV.
CHKPNT
       GM.RG.GO.KFS.USET.KNN.MNN.BNN.K4NN
COND
       L53A . NUMGG
       MGG./WGG/C.Y.ALPHA#X386.4.0.01 $
ADD
MATGPR
       GPL.USET.SIL.WGG//C.N.G.
LABEL
       L53A
COND
       L53B.COUPLE
JUMP
       LBL4
LABEL
       L53B
ALTER 63.63
       USET. GM. KGG. MGGY. BGGY. K4GGY/KNN. MNN. BNN. K4NN
MCE2
ALTER 74.74
       L87.0M1T
COND
ALTER 77,77
ALTER 80.81
CUND
      LBLB . NOBG
ALTER 85.85
CUND
       L87.NOK4
```

```
ALTER 87
LABEL
       L87
PURGE
         CPARL.CPEUA.CPNSF.CPGMN.EQR.EQL.EQA.EQQ.EQF.EQN.EQM.EQG/REACT
PURGE
       EX.EXT.EOMT.EQNT.EQGT.EQGTC.MOGG.NOGGY/RFACT
PURGE
         KLL.KLR.KRR.LLL.ULL.DN.X.EQRT.DM1.GOT.GMT/REACT
         LCP5 REACT & R-SET MUST BE DEFINED TO GENERATE EQG
COND
RBMG1
        USET, KAA ./KLL, KLR, KRR... $
RBMG2
        KLL/LLL.ULL
        LLL.ULL.KLR.KRR/DM
RBMG3
CHKPNT
         KLL.KLR.KRR.DM
TRNSP
         EUR/EURT
MATGPR
        GPL . USE T . STL . E ORT // C . N . R
         KLR.DN.KRR/X/C.N.1 5
MPYAD
        GPL.USET.SIL.X//C.N.R
MATGPR
MPYAD
         EOR . X . / EX/C . N . 0 / C . N . 1 / C . N . 0 $
TRNSP
         EX/EXT
MATGPR
         GPL.USET.SIL.EXT//C.N.R
PURGE
         CPFUAZUMITZCPNSFZSTNGLEZCPGNNZMPCF1
        EQUIONIT/EQM/MPCF1
PURGE
PURGE
         GOT/OMIT/GMT.EQMT/MPCF1
         USET/CPARL/C.N.A/C.N.R/C.N.L $
VEC.
TRNSP
         DM/DM1
MPYAD
         EGR .DMT . /EQL/C.N.0/C.N.1/C.N.0
MERGE
         EOR . . EOL . . CPARL . / EGA/C . N . 1/C . N . 2/C . N . 2
EQUIV
         EQA.EQF/ONIT
COND
         LCP1,OMIT
        USET/CPFDA/C.N.F/C.N.D/C.N.A &
VEC
TRNSP
         COZGOT
MPYAD
         EQA.GOT./EOD/C.N.O/C.N.1/C.N.O
MERGE
        EGD..COA..CPFUA./EGF/C.N.1/C.N.2/C.N.2
LABEL
         LCPI
         EOF . EON/SINGLE
EQUIV
COND
         LCP2.SINGLE
VEC
         USET/CPNSF/C.N.N/C.N.S/C.N.F &
         ..EQF..CPHSF./EQN/C.N.1/C.N.2/C.N.2
MERGE .
LABEL
         LCP2
         EQN/EQNT
TRNSP
MATGPR
        GPL.USET.SIL.EONT//C.N.N
        EON.EUG/MPCF1
EQUIV
COND
        LCP3.MPCF1
VEC
         USET/CPGMN/C.N.G/C.N.M/C.N.N $
TRNSP
        GM/GMT
MPYAD
        EQN. GMT. /EQM/C.N.O/C.N.1/C.N.O
MERGE
        EGM., FQN., CPGMN./EGG/C.N.1/C.N.2/C.N.2
TRNSP
        EOM/EUMT
MATGPR
        GPL.USCI.SIL.EQMT//C.N.M
LABEL
        LCP3
CHKPNT
        CPFOA . CPNSF . CPGMII . CPARL
CHKPNT
        E OG
TRNSP
        EQG/EQGT
```

NASTRAN EXECUTIVE CONTROL DECK ECHO

EQGT./EQGTC/C.Y.ALPHA#X386.4.0.01 5 \$ ASSUME CONVERSION OF MASS TO LBS # 386.4 PURGE MOGG/MOGG/MOGGY/COUPLE CUND · LCP4 . NUMGG SMPYAD EOG.MGG.EOGTC.../MDGG/C.N.3/C.N.1/C.N.0 \$ LCP4 LABEL LCP5.COUPLE COND SMPYAD EOG.MGGY.EOGTC.../MDGGY/C.N.3/C.N.1/C.N.0 \$ LABEL LCP5 MATPRN MOGG.MUGGY...// \$ COND LCP8.TPCOPY SEEMAT KAA...//C.N.PRINT SEEMAT MAA...//C.N.PRINT DUTPUT1 GM.GO.KFS.KAA.//C.N.-1/C.N.O/V.Y.TPNAME QUTPUT1 MAA...// S COND LCP7.NOK4 SEEMAT KAAA...//C.N.PRINT OUTPUT1 K4AA,.../ 5 LCP8,NUBG SEEMAT BAA.,,//C.N.PRINT
OUTPUT1 BAA,,,,// \$ LABEL LCP8 ALTER 89,162 ALTER 164.167 ENDAL TER

NASTRAN EXECUTIVE CONTROL DECK ECHO

			maner and maner maner maner and a second maner.													
EC	HO OF	FIRS	T CAR	D IN	CHEC	KP01N	T D	1611	DNARY	TO BE	PUN	CHED	OUT	FUR	THIS	PROBLEM
	REST	ART	PHAS	iE 1	•SRMR	11A •	8/	7/7.	3• 	3495			· .			`
														,		
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	the second secon	
		CASE CONTROL DECK ECHO
	CARD	
	COUNT	
	1	TITLE # PHASE 1 XPART 1 H
- `	2	SUBTITLE # SRM & PROPELLANT AFT HALF
<u> </u>	3	MAXLINES # 60000
	4	SPC # 1
	5	BEGIN BULK

* ** USER INFORMATION MESSAGE 207. BULK DATA NOT SORTED.XSORT WILL RE-ORDER DECK.

		s (RTED	ัหบ่	LK DA	TAE	СНО		
CARD									
COUNT 1 .	. 2 .	. 3	4	• 5	•• 6	7 .	. 8	••9	10
1- ASET1	123	7290	THRU	7292					:
2- ASET1	123	7294	THRU	7296		•	•		
3- ASE 11	123	7298	THRU	7300					
4- ASET1	123	7302	THRU	7304					
5- ASET1	123	7306	THRU	7308	•			100	
6- ASET1	123	7310	THRU	7312			•		•
7- ASE 11	123	7314	THRU	7316					
8- ASET1	123	7318	THRU	7320			• •		
9- ASETI	123	7322	THRU	7324		•			
10- ASETI	123	7326	THRU	7328					
11- ASET1	123	7330	THRU	7332					
12- ASET1	123	7334	THRU	7336		•			
13- ASET1	123	7385	7388	7397		•			-
14- ASET1	123	7400	7409	7412	7421	7424	7481	7484	
15- ASET1	123	7493	7496	7505	75.08	7517	7520	7801	
16- ASET1	123	7803	7805	7806	7809	7811	7813	7814	
17- ASET1	123	7865	7867	7869	7870	7873	7875	7877	
18- ASET1	123	7878	8352	8355				4	
19- ASET1	123456	7289	7293	7297	7301	7305	7309	7313	
20- ASET1	123456	7317	7321	7325	7329	7333			
21- CBAR	4001	101	7577	7581	1.0	•0	. 0	1	ECB01
22- EC801			0.365			0.365			
23- CHAR	4002	101	7581	7585	1.0	• 0	• 0	1.	€CB02
24- &CB02			0.365			0.365			
25- CBAR	4003	101	7585	7589	1.0	•0	•0	1	£CB03
26- &CB03	-		0.365	•		0.365			
27- CBAR	4004	101	75.89	7593	1.0	0	• 0	1	£C804
28- 6CH04			0.365			0.365	•		
29- CHAR	4005	101	7593	7597	1.0	• 0	•0 .	1 '	€CB05
30- ECB05			0.365			0.365			
31- CHAR	4006	101	7597	7601	1.0	•0	. 0	1 1 1	&CB06
32- CR06	٠.	*	0.365	•		0.365			
33- CHAR	4007	101	7601	7605	1.0	•0	• 0	1	EC807
34- &CH07			0.365			0.365			
35- CBAH	4008	1 0.1	7605	7609	1.0	• 0	• 0	1,	80833
36- ECB08			0.365			0.365		* 1	
37- CHAR	4009	101	7609	7613	1.0	•0	• 0	1	ECB09
38- &CB09			0.365			0.365			
39- CBAR	4010	101	7613	7617	1.0	•0	• 0	1	ECB10
40- &C910			0.365			0.365			
41- CBAR	4011	101	7617	7621	1.0	•0	•0	1	ECB11
42- 6CB11			0.365			0.365			,
43- CHAR	4012	101	7621	7577	.1 - 0	•0	.0	1.	, ECB12
44- &CB12			0.365		• • •	0.365	•		
45- CBAR	4013	102	7801	7602	1.0	0	•0		
46- CBAR	4014	102	7802	7803	1.0	•0	•0	1	
47- CBAR	4015	102	7803	7804	1.0	•0	•0	1	
48- CBAR	4016	102	7804	7805	1.0	•0	.0	1	
49- CBAR	4017	102	7805	7806	1.0	•0	•0	1	
50- CBAR	4018	102	7806	7807	1.0	•0	•0	1	·
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CARD		S O	RTED	ви		TAE	сно	
COUNT 1	2	3	4	. 5	•• 6	. 7	. 8 .	. 9 10
51-CHAR	4019	102	7807	7808	1.0	•0	•0	1
52-CBAR	4020	102	7808	7809	1.0	•0		1
53-CBAR	4021	102	7809	7810		•0	•0	3
54 - CBAR	4022	102	7810	7811	1.0	•0	•0	1
55-CHAR	4023	102	7811	7812	1.0	•0	•0	1
56-CBAR	4024	102	7812	7813	1.0	.0	• 0	1
57-CBAR	4025	102	7813	7814	1.0	•0	•0	1
58-CBAR	4026	102	7814	7815	1.0	•0	•0	1
59-CBAR	4027	102	7815	7816		•0	•0	1
60-CBAR	4028	102	7816	7801	1.0	•0	-0	1
61-CBAR	4029	103	7865	7866	1.0	•0	•0.	1 &CB29
62-60829			-0.78			-0.78		
63-CBAR	4030	103	7866	7867	1.0	•0	•0	1 &CB30
64-&CB30			-0.78			-0.78		* .
65-CBAR	4031	103	7867	7868	1.0	•0	•0	1 &C931
66-£CB31			-0.78			-0.78		
67-C9AR	4032	103	7868	7869	1.0	• O	• 0	1 &C932
68-&CB32			-0.78			-0.78		
69-CBAR	4033	103	7869	7870	1.0	•0	•0 ,	1 · 6CB33
70-EC833			-0.78			-0.78	•	
71-CBAR	4034	103	78 70	7871	1.0	• 0	• 0	1
72-6CB34	•	•	-0.78			-0.78		•
73-CBAR	4035	103	7871	7872	1.0	• 0	• 0	1 &CB35
74-EC835			-0.78			-0.78		
75-CBAR	4036	103	7872	7873	1.0	-0	- 0	1 6CR36
76-8CB36	4		-0.78			-0.78		
77-CBAR	4037	103	7873	7874	1.0	0	•0.	1 6CB37
78-&CB37			-0.78		•	-0.78		
79-CBAR	4038	103	7874	7875	1.0	• 0	•0	1 6CB38
80-EC938			-0.78		-	-0.78	*	
81-CBAR	4039	103	7875	7876	1.0	-0	• 0	1 & CB39
82~&C839	•	•	-0.78		•	-0.78		•
83-CHAR	4040	103	7876	7877	1.0	•0	• O	1 &C940
84- &CB40			-0.78			-0.78		•
85-CBAR	4041	103	7877	7878	1.0	• 0	• 0	1 · 6CB41
86-ECB41	<u></u>		-0.78			-0.78		
87-CBAR	4042	103	7878	7879	1.0	• 0	• 0	1 &C342
88-£C842			-0.78			-0.78		
89-CBAR	4043	103	7879	7880	1.0	•0	•0	1 6CB43
90-86843	•		-0.78			-0.7 8	•	
91-CBAR	4044 .	103	7880	7865	1.0	•0	- 0	1 &CH44
92-6CB44			-0.78			-0.78		
93- C9AR	4101	104	7803	7819	•9659	• 0.	-0.2588	
94-6CB101			0.7727		-0.2071	0.7727		-0.2071
95-CBAR	4102	1.04	7819	7835	•9659	•0	-0.2588	and the second s
96-CCB102			0.7727		-0.2071	0.7727		-0.2071
97-CHAR	4103	104	7835	7851	.9659	•0	-0.2588	
98-ECB103			0.7727		-0.2071	0.7727		-0.2071
99-CBAR	4104	104	7851	7867	•9659	•0	-0.2588	
100-6CB104			0.7727		-0.2071	0.7727		-0.2071

PHASE 1 XPART 1 M SRM & PROPELLANT AFT HALF

SUBTED 9 U L K DATA ECHO CARS -0.2588 1 COUNT . 10 6 • • 101 - CBAR 4105 104 7806 7822 . 9659 •0 EC8105 102- 609105 0.7727 -0.2071 0.7727 -0.2071 . 9659 **601833** 103- CBAR 4106 104 7822 7838 • 0 -0.2588 1 104- EC8106 0.7727 -0.2071 0.7727 -0.2071 105- CSAR 4107 104 7838 7854 .9659 •0 -0.2588 1 &CB107 106- CCB107 0.7727 -0.2071 0.7727 -0.2071 •0 107- CBAR -0.2588 1 **ECB108** 4108 104 7854 7870 .9659 108- &06108 0.7727 -0.2071 0.7727 -0.2071 109- CBAR 4109 104 7811 1827 • 9659 • 0 -0.2588 1 &CB109 110- 604109 0.7727 0.7727 -0.2071 -0.2071 • 0 €CB110 111- C3AR 4110 104 7827 7843 .9659 -0.2588 1 112- 603110 0.7727 -0.2071 0.7727 -0.2071 113- CBAR 4111 104 7843 7859 .9659 -0 -0.2588 1 &C3111 114- EC9111 0.7727 -0.2071 0.7727 -0.2071115- CSAR 4112 104 7859 7875 .9659 • 0 -0.2588 1 **ECB112** 116- 603112 0.7727 -0.2071 -0.2071 0.7727 117- CHAR 4113 104 7814 7830 . 9659 . 0 -0.2588 1 **ECH113** 116- &C3113 0.7727 -0-2071 0.7727 -0.2071 119- CBAR 7830 7846 .9659 • 0 **&CB114** -0.2071 120- EC3114 0.7727 -0-2071 0.7727 121- CBAR EC9115 7846 7862 •9659 • 0 -0.2588 1 122- 6CH115 0.7727 -0.2071 0.7727 -0.2071 123- CSAR -0.2588 1 . 0 €CB116 7862 • 9659 -0.2071 124- EC3116 0.7727 -0.2071 0.7727 1000 7290 7294 7289 7337 EHX1217 125- CHEXA1 7338 7342 126- EHX1217 7341 7293 127- CHEXA1 1000 7291 7339 7343 7295 7290 7338 **CHX1218** 7342 7294 128- EHX1218 129- CHEXA1 1219 1000 7292 7296 7291 7339 EHX1219 7340 7344 136- EHX1219 7343 7295 131- CHEXA1 1220 1000 7294 7346 7341 EHX1220 7342 7298 7293 132- EHX1220 7345 7297 133- CHEXA1 1221 1000 7295 EHX1221 7299 7294 7342 7343 7347 134- 6HX1221 7346 7298 135- CHEXA1 1222 1000 7296 7344 7348 7300 7295 7343 &HX1222 136- 6HX1222 7347 7299 137- CHEXA1 1223 1000 7298 EHX1223 7346 7350 7302 7247 7345 138- EHX1223 7349 7301 139- CHEXA1 1224 1000 7299 &HX1224 7347 7351 7303 7298 7346 140- EHX1224 7350 7302 141- CHEXAL 1225 1000 7300 7348 7352 7304 7299 7347 6HX1225 7351 7303 142- CHX1225 143- CHEXA1 1226 1000 7302 7350 7354 7306 7301 7349 6HX1226 144- EHX1226 7353 7305 145- CHEXA1 1227 1000 7303 7351 7355 7307 7302 7350 EHX1227 146- CHX1227 7354 7306 147- CHEXA1 1228 1000 7304 7352 7356 7308 7303 7351 EHX1228 148- CHX1228 7355 7307

7354

7358

7310

7305

7353

6HX1229

150- CHX1229

149- CHEXA1 1229 1000 7306

7357 7309

PHASE 1 XPART 1 H SRM 6 PROPELLANT AFT HALE

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	SORTE	о в с) L K	DATA	ECH	0	
CARD							
COUNT . 1 . 2	344	_e. 5_		7	•.• 8	9	10 .
151- CHEXA1 1230 100	0 7307	7355	7359	7311	7306	7354	6HX1230
152- CHX1230 7358	7310						
153- CHEXAL 1231 100	0 7308	_ 7356	7360	7312	7307	7355	EHX1231
154- LHX1231 7359	7311						
155- CHEXAL 1232 100	0 7310	7358	7362	7314	7309	7357	6HX1232
156- EHX1232 7361	7313						
157- CHEXAL 1233 100	0 7311	7359	7363	7315	7310	7358	&HX1233
158- EHX1233 7362	7314						
159- CHEXAL 1234 100		7360	7364	7316	7311	7359	6HX1234
160- EHX1234 7363	7315					, • • •	•
161- CHEXA1 1235 100		7362	7366	7318	7313	7361	EHX1235
162- 6HX1235 7365	7317	. 501					0,,,,,
163- CHEXA1 1236 100		7363	7367	7319	7314	7362	EHX1236
164- EHX1236 7366	7318	, 303	, 50,	,3,,	1314	. 302	DITALESO
		7364	7368	7320	7315	7363	EHX1237
165- CHEXA1 1237 100		7304	7366	7320	7313	7363	GHAIZSI
166- 6HX1237 7367	7319	3744		7700	~~~~	2245	C
167- CHEXAI 1238 100		7366	7370	7322	7317	7365	6HX1238
168- EHX1238 7369	7321			- '		20.50	
169- CHEXA1 1239 100		7367	7371	7323	7318	7366	6HX1239
170- EHX1239 7370	7322						
171- CHEXA1 1240 100		7368	7372	7324	7319	7367	6HX1240
172- 6HX1240 7371	7323						
173- CHEXA1 1241 100	00 7322	7370	7374	7326	7321	7369	&HX1241
174- CHX1241 7373	7325			- .			
175- CHEXA1 1242 100	00 7323	7371	7375	7327	7322	7370	EHX1242
176- GHX1242 7374	, 7326					-	
177- CHEXAL 1243 100	7324	7372	7376	7328	7323	7371	6HX1243
178- EHX1243 7375	7327						
179- CHEXA1 1244 10	00 7326	7374	7378	7330	7325	7373	EHX1244
180- EHX1244 7377	7329						
181- CHEXAL 1245 100		7375	7379	7331	7326	7374	&HX1245
182- EHX1245 7378	7330			,,,,,,			
183- CHEXA1 1246 10		7376	7380	7332	7327	7375	6HX1246
184- EHX1246 /379	7331		1330	700.	7.52.	1375	011,712.30
		7378	7382	7334	7329	7377	EHX1247
		/3/6	1307	7334	1214	1311	60X1247
186- CHX1247 7381	7333						
187- CHEXA1 1248 10		7379	7383	7335	7330	7378	6HX1248
188- CHX1248 7382	7334				·		
189- CHEXA1 1249 10	•	7380	7384	7336	7331	7379	&HX1249
190- EHX1249 /383	7335						
191- CHEXAL 1250 10	00 7334	7382	7338	7290	7333	7381	6HX1250
192- EHX1250 7337	7289			-		.	
193- CHEXA1 1251 10	00 7335	7383	7339	7291	7334	7382	&HX1251
194- 6HX1251 7338	7290						
195- CHEXA1 1252 100		7384	7340	7292	7335	7383	&HX1252
196- EHX1252 7339	7291	**					
197- CHEXA1 1253 10		7386	7390	7342	7337	7385	EHX1253
198- 6HX1253 7389	7341						
199- CHEXA1 1254 100		7387	7391	7343	7338	7386	EHX1254
200- EHX1254 7390	7342			· - · -		. =	
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CARD			"			•	*
COUNT . 1 2	3 4	5	6	7	8	9	10
201- CHEXA1 1255 100		7388	7392	7344	7339	7387	6HX1255
202- SHX1255 7391	7343					. 35.	UNATESS
203- CHEXA1 1256 100		7390	7394	7346	7341	7389	EHX 1256
204- EHX1256 7393	7345						OHATESO
205- CHEXA1 1257 100		7391	7395	7347.	7342	7390	EHX1257
	7346				1012		UNIKIESI
207- CHEXA1 1258 100		7392	7396	7348	7343	7391	6HX1258
208- CHX1258 7395	7347	, f	,-				OMATESO.
209- CHEXAL 1259 100	0 7346	_7394	7398	7350	7345	7393	CHX1259
210- CHX1259 7397	7349		• .			.,,,,,	0
211- CHEXAL 1260 100	0 7347	7395	7399	7351	7346	7394	&HX1260
212- EHX1260 7398	7350						• · · · · · · · · · · · · · · · · · · ·
213- CHEXA1 1261 100	0 7348	7396	7400	7352	7347	7395	EHX1261
214- EHX1261 7399	7351					,	
215- CHEXAL 1262 100	0 7350	7398	7402	7354	7349	7397	6HX1262
216- EHX1262 7401	7353						
217- CHEXA1 1263 100	0 7351	7399	7403	7355	7350	7398	6HX1263
218- EHX1263 7402	7354			•	-		
219- CHEXA1 1264 100		7400	7404	7356	7351	7399	EHX1264
220- 6HX1264 7403	7355						
221- CHEXA1 1265 100	0 7354	7402	7406	7358	7353	7401	6HX1265
222- CHX1265 7405	7357						
223- CHEXA1 1266 100	0 7355	7403	7407	7359	7354	7402	EHX1266
224- 6HX1266 7406	7358		•				
225- CHEXA1 1267 100	0 7356	7404	7408	7360	7355	7403	EHX1267
226- EHX1267 7407	7359	٠.	•				
227- CHEXAL 1268 100	0 7358	7406	7410	7362	7357	7405	EHX1268
228- 6HX1268 7409	7361	•					.01
229- CHEXA1 1269 100	0 7359	7407	7411	7363	7358	7406	6HX1269
230- EHX1269 7410	7362		-				
231- CHEXA1 1270 100	0 7360	7408	7412	7364	7359	7407	- EHX1270
. 232- 6HX1270 7411	7363						
233- CHEXA1 1271 100	0 7362	7410	7414	7366	7361	7409	6HX1271
234- CHX1271 7413	7365				100		
235- CHEXA1 1272 100	0 7363	7411	7415	7367	7362	7410	EHX1272
236- CHX1272 7414	7366						
237- CHEXAI 1273 100	0 7364	7412	7416	7368	7363	7411	GHX1273
238- 6HX1273 7415	7367			•			
239- CHEXAI 1274 100	0 7366	7414	7418	7370	7365	7413	ÉHX1274
240- CHX1274 7417	7369						
241- CHEXAL 1275 - 100	0 . 7367	7415.	7419	7371	7366	7414	EHX1275
242- CHX1275 7418	7370						
243- CHEXA1 1276 100		7416	7420	7372	7367	7415	6HX1276
244- EHX1276 7419	7371	•					
245- CHEXAI 1277 100	0 7370	7418	7422	7374	7369	7417	6HX1277
246- GHX1277 7421	7373		-		Ţ.,		
247- CHEXAL 1278 100	0 7371	7419	7423	7375	7370	7418	EHX1278
248- LHX1278 7422	7374						
249- CHEXA1 1279 100	0 7372	7420	7424	7376	7371	7419	6HX1279
250- EHX1279 7423	7375						

			. 42					
		SURTE	· D B	ULK	DATA	ECH	O	•
CARD			_		_			
COUNT . 1					7,	8	• • 9	10 .
251- CHEXA1			7422	7426	7378	7373	7421	6HX1280
252- CHX1280		7377	3403	. 3403				
253- CHEXA1		u 7375. 7378	_7423	7427	7379	7374	7422	CHX1581
254 - 6HX 1281	7426		7404	7400	7700	******	7407	
255- CHEXA1	1282 100 7427		7424	7428	7380	7375	7423	£HX1282
256- EHX1282 257- CHEXA1	1283 100	7379 0 7378	7426	7430	7382		74.05	CUV 1203
258- CHEARI 258- CHX1283		7381	7420	7430	7302	7377	7425	EHX1283
259- CHEXA1			7427	7431	7383	7378	7426	EHX1284
260- EHX1284		7382			. 7303	73,70	7426	CHAILOT
261 - CHEXA1	1285 100		7428	7432	7384	7379	7427	EHX1285
262- GHX1285		7383	, ,		7554			01141200
263- CHEXA1	1286 100		7430	7386	7338	7381	7429	EHX1286
264- CHX1286		7337		,,,,,	1000	1301	****	011A1200
265- CHE XA1			7431	7387	7339	7382	7430	CHX1287
266- EHX1287		7338	=, ; ;		, 00 -			
267- CHE XA1	1288 100		7432	7388	7340	7383	7431	6HX1288
266- EHX1588		7339						
POO= CHEXAL	1586 106		7434	7438	7340	7384	7433	EHX1889
270= 6HX 1289		7389		143.	15.70	1305	3 4 12 12	reason to the second
271- CHEXAT	1290 106		7435	7436	7391	f386	7434	BPS I XH3
272- BHX1290		7390		.,	, 3, 4, 1	1300	7454	0/131/ 90
273- CHEXA1	1291 100	•	7436	7440	7392	7387	7435	EHX1291
274- 6HX1291		7391	,			, 50,	1400	0.17.12.52
275- CHEXA1	1292 100		7438	7442	7394	7389	7437	EHX1292
276- CHX1292		7393			, , ,			020)
	1293 100		7439	7443	7395	7390	7438	EHX1293
278- EHX1293		7394						
279- CHEXA1	1294 100	0 7392	7440	7444	7396	7391	7439	EHX1294
280- EHX1294	7443	7395						
281 - CHEXA1	1295 100	0 7394	7442	7446	7398	7393	7441	&HX1295
282- EHX1295	7445	7397					•	
283- CHEXA1	1296100	0 7395	7443	7447	7399	7394	7442	EHX1296
284- EHX1296	7446	7398			•			•
285- CHEXAL	1297 100	0 7396	7444	7448	7400	7395	7443	6HX1297
286- EHX1297	7447	7399						
287- CHEXAL	1298 100	0 7398	7446	7450	7402	7397	7445	8HX1298
288- EHX1298	7449	7401						•
289- CHEXAL	1299 100	0 7399	7447	7451	7403	7398	7446	EHX1299
290- EHX1299	7450	7402						
291- CHEXA1	1300 100	7400	7448	7452	7404	7399	7447	EHX1300
292- CHX1300	7451	7403						
293- 'CHEXA1	1301 100		7450	7454	7406	7401	7449	EHX1301
294- EHX1301		7405			*,			ě
295- CHEXA1			7451	7,455	7407	7402	7450	EHX1302
296- EHX1302		7406	_					
297- CHEXAL	1303 100		7452	7456	7408	7403	7451	EHX1303
298- EHX1303		7407						
299- CHEXA1	• .		7454	7458	7410	7405	7453	&HX1304
300- GHX1304	7457	7409						

	5	ORTE	D B	ULK	DATA	ECH	o ·	
CARD	•							4.
COUNT . 1 .	. 2 3	4	5	6	7	8	• • 9	10 .
301-CHEXA1	1305 1000	7407	7455	7459	7411	7406	7454	6HX1305
302- 6HX1305	7458 74	410						
303- CHEXA1	1306 1000	7408	7456	7460	7412	7407	7455	60E1XH3
304- CHX1306	7459 7	411		_		•		
305- CHEXA1	1307 1000	7410	7458	7462	7414	7409	7457	EHX1307
306- EHX 1307	7461 74	413						
307- CHEXAS	1308 1000	7411	7459	7463	7415	7410	7458	6HX1308
308- £HX1308	7462 7	414					* .	
309- CHEXAL	1309 1000	7412	7460	7464	7416	7411	7459	60E1XH3
910-EHX1309	7463 7	415						• •
311-CHEXA1	1310 1000	7414	7462	7466	7418	7413	7461	EHX1310
312-CHX1310	7465 7	417						
313- CHEXAL	1311 1000	7415	7463	7467	7419	7414	7462	6HX1311
314- 6HX1311	7466 7	418		1			, .	
315- CHEXAL	1312 1000	7416	7464	7468	7420	7415	7463	CHX1312
316-6HX1312	7467 7	419						•
317- CHEXAL	1313 1000.	7418	7466	7470	7422	7417	7465	EHX1313
318-6HX1313	7469 7	421					The second second	
****	1314 1000	7419	7467	7471	7423	7418	7466	GHX1314
320- 6HX1314	7470 7	422			•			- 1. · 1
	1315 1000	7420	7468	7472	7424	7419	7467	GHX1315
322- EHX1315		423					•	
	1316 1000	7422	7470	7474	7426	7421	7469	6HX1316
324-EHX1316		425		<u></u>	m			
325- CHEXAI	1317 1000	7423	7471	7475	7427	7422	7470	СНХ1317
326-EHX1317	7474 7	426			*,		,	
		7424	7472	7476	7428	7423	747.1	EHX1318
328-6HX1318		427	• 1					. •
	1319 1000	7426	7474	7478	7430	7425	7473	EHX1319
330-CHX1319		429						
	1320 1000	7427	7475	7479	7431	7426	7474	6HX1320
332-EHX1320		430						
	1381 1000	-,	7476	7480	7432	7427	7475	6HX1321
334-6HX1321		431						
	1322 1000	7430	7478	7434	7386	7429	7477	EHX1322
336-6HX1322		385						
337- CHEXA1		7431	7479	7435	7387	7430	7478	EHX1323
338- 6HX1323		386		~.~.			;	
	1324 1000	7,432_	7480	7436	7388	74.3.1	7479	6HX1324
340-6HX1324		387	~~~~	784.05	74.70	-:		
	1325 1000	7434	7482	7486	7438	7433	7481	СНХ 1 325
342-6HX1325		74 75		7403				
343-CHEXA1 344-6HX1326	1326 1000 7486 74	74.35 138	7483	7487	74 39	7434	7482	EHX1326
			7404	7400	7440	7476	7407	£444.70-
346- 6HX1327		7 <u>436</u> 339	7484	7488	7440	7435	7483	EHX1327
	1328 1000	7438	7494	7490	70.42	7427	7405	CMV1320
348-6HX1328		141	7486	7470	7442	7437	7485	EHX1328
	1329 1000	7439	7487	7491	7443	7438	7486	CHV1320
350~ 6Hx1329		1439	7407	7471	7.443	1430	7700	EHX1329
COO DINATORS	1770	• •		. '				٠.

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	SURTE	. в в	ULK	DATA	ECH	O.	
CARD	•					•	
	3 4	5	6.	7	• • · B	9.	10 .
351-CHEXA1 1330 100		7488	7492	7444	7439	7487	6НХ1330
352-CHX1330 7491	7443						
•	0. 7442	7490	7494	7446	7441	7489	&HX1331
354- 6HX1331 7493	7445						
355-CHEXA1 1332 100		7491	7495	7447	7442	7490	6HX1332
356-CHX1332 7494	7446				•		
357-CHEXA1 1333 100		7492	7496	7448	7443	7491	EHX1333
358-6HX1333 7495	7447			,			
359-CHEXAL 1334100		7494	7498	7450	7445	7493	6HX1334
360-6HX1334 7497	7449						• • • • .
361-CHEXAI 1335 100	0 7447	7495	7499	7451	7446	7494	EHX1335
362-6HX1335 7498	7450	• • • •					
363-CHEXA1 1336 100		7496	7500	7452	7447	7495	6HX1336
364-6HX1336 7499	7451	•					
365-CHEXAL 1337 100		7498	7502	7454	7449	7497	EHX1337
366-6HX1337 7501	7453						
367-CHEXAL 1338 100		7499	7503	7455	7450	7498	6HX1338
368-6HX1338 7502	7454						
369-CHEXA1 1339 100		7500	7504	7456	7451	7499	EHX1339
370-6HX1339 7503	7455						
371-CHEXA1 1340 100	0 7454	7502	7506	7458	7453	7501	&HX1340
372-6HX1340 7505	7457				•		
373-CHEXA1 1341 100		7503	7507	7459	7454	7502	&HX1341
374-EHX1341 7506	7458						,
375-CHEXA1 1342 100		7504	7508	7460	7455	7503	6HX1342
376-EHX1342 7507	7459						
377-CHEXAL 1343 100	0 7458	7506	7510	7462	7457	7505	6HX1343
378-6HX1343 7509	7461						
379-CHEXAL 1344 100	0 7459	7507	7511	7463	7458	7506	EHX1344
380-EHX1344 7510	7462						
381-CHEXA1 1345 100	-	7508	7512	7464	7459	7507	6HX1345
382-6HX1345 7511	7463						
383-CHEXA1 1346 100	0 7462	7510	7514	7466	7461	7509	5HX1346
384-6HX1346 7513	7465	• • •					
385-CHEXA1 1347 100	0 7463	7511	7515	7467	7462	7510	EHX1347
386- CHX1347 7514	7466						•
387-CHEXA1 1348 100	0 7464	7512	7516	7468	7463	7511	EHX 1348
388- 6HX1348 7515	7467					•	
389- CHEXA1 1349 100	0 7466	7514	7518	7470	7465	7513	€HX1349
390- EHX1349 7517	7469						
391- CHEXAI 1350 100	0 7467	7515	7519	7471	7466	7514	ÉHX1350
392- 6HX1350 7518	7470			•	1.1		
393-CHEXA1 1351 100	0 7468	7516	7520	7472	7467	7515	EHX 1-351
394-6HX1351 7519	7471				*	•	
395- CHEXAI 1352 100	0 7470_	7518	7522	7474_	7469	7517	EHX1352
396-CHX1352 7521	7473						•
397- CHEXA1 1353 100	0 7471	7519	7523	7475	7470	7518	EHX1353
398- 6HX1353 7522	7474						
399- CHEXAI 1354 100	0 7472	7520	7524	7476	7.471	7519	EHX1354
400- 6HX1354 7523	7475	- ,					

		ORTE	ີ ຄື ສິ	ULK	D A T A	ECH		
CARD	, 3	U K I L		U L.K.	P 7 1 7	ECH	U	•
COUNT . I	2 •• 3	4	5	. 6	7	8	0	10 .
	355 1000	7474	7522	7526	7478	7473	7521	6HX1355
		477	7522	7520	7470	7473	7321	6HX 1335
402- 6HX1355			7523	7507	74.70		7522	
	356 <u>1</u> 000 7526 7		. 1323	7527	7479	7474	1266	EHX 1 356
404 - CHX 1356		478	75.0	74. 24		2474	74.03	C
- · ·	357 1000	7476	7524	7528	7480	7475	7523	EHX1357
406- CHX1357		479	70.04					
	358 1000	7478	7526	7482	7434	7477	7525	6HX1358
408- EHX1358		433	75.07	·	·			
	3591000		7527	7483	7435	7478	7526	EHX1359
410- EHX1359		434						
	360 1000	7480	7528	7484	7436	7479	7527	6НХ1360
412- CHX1360		435				المنتجد بمدد		
	361 1000	7482	7530	7534	74 86	7481	7529	EHX 1 36 1
414- EHX1361	•	485						
	362 1000	7483	7531	7535	7487	7482	7530	EHX1362
416- EHX1362		486		•				
417- CHEXAI 1.	363 1000	7484	7532	7536	7488	7483	7531	EHX 1363
418- CHX1363		487						
419- CHEXAI 1	364 1000	7486	7534	7538	7490	7485	7533	6HX1364
420 – EHX1 364	7537 7	489			,			
421 - CHEXA1 1	365 1000	7487	7535_	7539	7491	7486	7534	EHX1365
422 – &HX13 65	7538 7	490		•				
423- CHEXAI 1.	366 1000	7488	7536	7540	7492	7487	7535	66E1XH3
424 - EHX 1366	7539 7	491						
425- CHEXA1 1	367 1000	7490	7538 -	7542	7494	7489	7537	6HX1367
426-6HX1367	7541 7	493				•		
427- CHEXA1 1	368 1000	7491	7539	7543	7495	7490	7538	6HX136B
428- LHX1368	7542 7	494		•				• • ;
429- CHEXA1 1:	369 . 1000	7492	7540	7544	7496	7491	7539	69E-1XH3
430- EHX1369	7543 7	495						
431- CHEXA1 1:	370 1000	7494	7542	7546	7498	7493	7541	6HX1370
432- EHX1370	7545 7	497						
433- CHEXAL 1	371 1000	7495	7543	7547	7499	7494	7542	CHX1371
434- EHX1371	7546 7	498						:
	372 1000	7496	7544	7548	7500	7495	7543	6HX1372
436- EHX1372	7547 7	499		•				
437- CHEXA1 1:	373 1000	7498	7546	7550	7502	7497	7545	6HX1373
438- 6HX1373	7549 7	501	* * *					
439- CHEXA1 1.	374 1000	7499	7547	7551	7503	7498	7546	&HX1374
440- EHX1374	7550 7	502						
	375 1000	7500	7548	7552	7504	7499	7547	&HX1375
442- 6HX1375		503						
	376 1000	7502	7550	7554	7506	7501	7549	EHX1376
444- 6HX1376		505						3
	377 1000	7503	7551	7555	7507	7502	7550	6HX1377
446- EHX 1377		506						
	378 1000	7504	7552	7556	7508	7503	7551	6HX1378
448- CHX1378		507		. 556	. 300	. 505		V.1.7.516
	379 1000	7506	7554	7558	7510	7505	7553	6HX1379
450- EHX1379		509			, , , ,			J
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		SORTE	D B C	LK	DATA	ECH	O.	
CARD								
COUNT . 1			<u> 5</u>		77			
77	80 1000		7555	7559	7511	7506	7554	EHX 1 380
452- 6HX1380		7510	4.	•	•	•		
453- CHEXA1 13			7556	_7560_	7512	7507	7555	\$HX1381
454 - 6HX1381		7511						
• -	82 1000		7558	7562	7514	7509	7557	EHX1382
456- CHX1382		7513						
7.7	83 1000		7559	7563	7515	7510	7558	6HX1383
458 – 6HX1 383		7514	•	. •				
	841000		_ 7560	7564	7516	7511	7559	БНХ 1 384
460- EHX1384	7563	7515						
	185 1000		7562	7566	7518	7513	7561	6HX1385
462- CHX 1385	7565	7517	,				2.5	
· -	1000		7563	7567	7519	7514	7562	EHX1386
464- EHX1386	7566	7518				•		
465- CHEXA1 13		7516	7564	7568	7520	7515	7563	EHX1387
466- EHX 1387	7567	7519						•
467- CHEXA1 13	1000	7518	7566	7570	7522	7517	7565	EHX 1388
468- EHX 1388	7569	7521						
469- CHEXA1 13	189 1000		7567	7571	7523	7518	7566	6HX1389
470- EHX1389	7570	7522				•		
471- CHEXA1 13	1000	7520	7568	7572	7524	7519	7567	6HX1390
472- EHX1390	7571	7523						
473- CHEXA1 - 13	191 1000		7570	7574	7526	7521	7569	EHX 1391
474- CHX1391	7573	7525		· · · · · · · · · · · · · · · · · · ·				
475- CHEXA1 13	1000		7571	7575	7527	7522	7570	6HX1392
476-6HX1392	7574	7526	•	•	•			
477- CHEXAL 13			7572	757.6_	7528	7523	7571	EHX1393
478- EHX1 393	7575	7527				·		
	194 . 1000		7574	7530	7482	7525	7573	49E 1 XH3
480- CHX1394	7529	7481	٠ ٠٠ - يوسيوا سيو					
	95 1000		7575	7531	7483	7526	7574	6HX1395
482- EHX 1395	7530	7482	•	٠	•	٠.,		
	196 🚅 1000		7576	_ 7532	7484	7527	7575	EHX 1 396
484 — GHX1396	7531	7483		•				
·	1000		7578	7582	7534	7529	7577	БНХ1397,
486-6HX1397	7581	7533	ومنتيب من الم					
	39a 1000		7579	7583	. 7535	7530	7578	84X1398
488- GHX 1398	7582	7534	<u>.</u>		•			
489- CHEXA1 13			7580	7584	7536	7531	7579	EHX 1 399
490- EHX1399	7583	7535						
• •	1000		7582	7586	7538	7533	7581	EHX 1400
492-EHX1400	7585	7537						
•	1000		7583	7587	7539	7534	7582	EHX1401
494- 6HX1401	7586	7538	. ===.				7507	
	1000		7584	7588	7540	7535	7583	EHX 1402
496-6HX1402	7587	7539						
	1000		7586	7590	7542	7537	7585	EHX1403
498- CHX1403	7589	7541						
• •	1000	_	7587	7591	7543	7538	7586	EHX 14 04
500- CHX 1404	7590	7542	* * * *	:	•	,		

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CARD	30472		0 2 2	D	2	•	*
	٠. ۵		6	7	Ω.		10
	3 • <u>4</u>		7592		7539	7587	EHX1405
	* *	. /300	7592	7544	7539	1301	6HX1405
502-EHX1405 7591	7543	7500	7504	7544		75.00	
503- CHEXA1 1406 100		7590	7594	7546	7541	7589	EHX1406
504- EHX1406 7593	7545						
505- CHEXA1 1407 100		7591	7595	7547	7542.	7590	EHX1407
506- EHX1407 7594	7546 <u></u>		للجار فرزمية مسا	والحالجية الأرزاعيد		المن وسسواء الا	
507- CHEXAI 1408 100		7592	7596	7548	7543	7591	CHX1408
508- 6HX1408 7595	7547						
509- CHEXA1 1409 100	0 7546_	7594	7598	7550	7545	7593	CHX1409
510- EHX1409 7597	7549				•		
511- CHEXAI 1410 100	0 7547	7595	7599	7551	7546	7594	CHX1410
512- EHX1410 7598	7550				·		
513- CHEXAL 1411 100	0 . 7548	7596	7600	7552	7547	7595	EHX 1411
514- CHX1411 7599	7551		•				
515- CHEXAI 1412 100	0 7550	7598	7602	7554	7549	7597	EHX1412
516- LHX1412 7601	7553	•					
517- CHEXAL 1413 100		7599	7603	7555	7550	7598	EHX1413
518- CHX1413 7602	7554			1.,,,,			
519- CHE XA1 1414 100		7600	7604	7556	7551	7599	EHX1414
520- SHX1414 7603	7555					,,,,,	
	0 7554	7602	7606	7558	7553	7601	EHX1415
522- EHX1415 7605	7557			(دروب ا	7,0,0	DIIAITIS
· · · · · · · · · · · · · · · · ·		7603	7607	3600	7566	7602	CHVEALA
		7603	7607	7559	7554	. 7602	EHX1416
524 - EHX1416 7606	7558						
525- CHEXA1 1417 100		7604	7608	7560	7555	7603	EHX1417
526- EHX1417 7607	7559						
527- CHEXAI 1418 100		7606	_ 7610	7562	7557	7605	EHX1418
528- CHX1418 7609	7561		- '	• •			
529- CHEXAI 1419 100		7607	7611	7563	7558	7606	6HX1419
530- CHX1419 7610	7562						
531- CHEXAI 1420 100	7560	7608	7612	7564	7559	7607	EHX1420
532 - LHX1420 7611	7563	٠.					
533- CHEXA1 1421 100	7562	7610	7614	7566	7561	7609	6HX1421
534- CHX1421 7613	7565			•		-	
535- CHEXAI 1422 100	0 7563	7611	7615	7567	7562	7610	SHN1422
536- CHX1422 7614	7566						
537- CHEXA1 1423 100	0 7564	7612	7616	7568	7563	7611	GHX1423
538- EHX1423 7615	7567	,				·,,- •	
539- CHEXA1 1424 100		7614	7618	7570	7565	7613	EHX1424
540- EHX1424 7617	7569				1300		OHA 1464
541- CHEXAI 1425 100		7615	7619	7571	7566	7614	EHX1425
		,013	7019	7371		7014	GHAI425
	7570	7614	7.00	25.70	70.47	76.16	
543- CHEXAI 1426 100		7616	7620	7572	7567	7615	EHX1426
544- 6HX1426 7619	7571	74 4.0	74.00	***	34.40	74	
545- CHEXA1 1427 100		7618	7622	7574	7569	7617	GHX1427
546- GHX1427 7621	7573			•		· _•	
547- CHEXA1 1428 100		7619	7623	7575	7570	7618	EHX1428
548- CHX1428 7622	7574			-			,
549- CHEXA1 1429 100	,	7620	7624	7576	7571	7619	6HX1429
550- EHX1429 7623	7575						
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_	ARD									•
	OUNT . 1	•• ?			•• 5	e.e 6	7	•• 8	9	10
	551 - CHEXA1	1430	1000	7574	7622 .	7578	7530	7573	7621	6HX1430
	552- 6HX1430				•	•				
	553- CHEXAI	1431	1.00.0	75.75	7623	7579	7531	7574	7622	EHX1431
	554 - GHX1431	757			-					
	555- CHE XA1	1432	1000	7576	7624	7580	7532	7575	7623	SE41XH3
	556 - &HX1432							·		
	557- CONROD	3001	7805	8352	100	•308				•
	558- CONROD	3002	7809	8355	100	• 308				
	559- CONROD	3003	7813	8355		.308				
	560- CURD2C 561- &CSSRM	100	696	74.738	-30.494	6.138	200.0	-30.494	6.138	&CSSRM
	562 - CURD2R	74.738		0.0	20					
		101	696	74.738	-30.494	6.138	74 • 738	-28.570	115,6963	ERSSRM
	563- ERSSRM 564- CORD2R	200•	-30.494	6.138						
		696	0	-81.568	3.0	35.5985	-80.227	78.0	57.5136	GRSTANK
-	<u>565— ERSTANK</u> 566— CQUAD2	68• <u>25</u> 73	100	48.432	79.00 m			•		
	567- CQUAD2	73 74	100	7289	7337	7341	7293	• 0		
	568- CQUAD2	74 75	100	7293	7341	7345	7297	•0		•
	569+ CQUADZ	76	100	7297 7301	7345	7349	7301	•.0		
	570- COUAD2	77	100	7301	7349	7353	7305	•0		
	571 - COUAD2	78	100	7305	7353	7357	7309	•0		•
	572- COUADS	79	100	7313	7357 7361	7361	7313	• 0		
	573- COUAD2	80	100	7313		7365	7317	•0		
	574 - CUUAD2	81	100	7321	7365	7369	7321	• 0		
	575- CQUAD2	82	100	7325	7369 7373	7373 7377	7325	•0	· ,	
	576- CQUAD2	83	100	7329	7377	7377 7381	7329	•0		
	577- CQUAD2	84	100	7333	7381	7337	7333	•0		
	578- CQUAD2	85	100	7337	7385		7289	•0		
	579- COUAD2	86	100	7341	7389	7389 7393	7341 7345	•0		•
	580- CQUAD2	87	100	7345	7393	7397	7349	•0		
	581 - COUAD2	88	100	7349	7397	7401	7353	•0		
٠.	582- CQUAD2		100	7353	7401	7405	7357	•0		
	583- CQUAD2	90	100	7357	7405	7409	7361	•0		
	584- CQUAD2	91	100	7361	7409	7413	7365	•0	• • •	
	585- CQUAU2	92	100	7365	7413	7417	7369	•0		
	586- COUAD2	93	100	7369	7417	7421	7373	•0		
	587- COUAD2	94	100	7373	7421	7425	7377	•0		
٠,	588 - COUAD2	95	100	7377	7425	7429	7381	•0	•	:
	589- CQUAD2	96	100	7381	7429	7385	7337	•0		
9	590- COUAD2	97	100	7385	7433	7437	7389	•0	* *	•
•	591 - CQUAD2	98	100	7389	7437	7441	7393	•0		
	592- CQUAD2	99	100	7393	7441	7445	7397	.0		
	593- COUAD2	100	100	7397	7445	7449	7401	.0		••
;	594 - CQUAD2	101	100	7401	7449	7453	7405	· • 0		
	595-CQUAD2	102	100	7405	7453	7457	7409	.0		
:	596- COUAD2	103	100	7409	7457	7461	7413	•0		
•	597- CUUAD2	104	100	7413	7461	7465	7417	•0		
	598- COUAD2	105	100	7417	7465	7469	7421	0		
-	599- COUAD2	106	100	7421	7469	7473	7425	•0		
•	500-COUAD2	107	100	7425	7473	7477	7429	•0		
		٠.	•				•			

			. 5	ORTE	ก กบ	LK D	A-T-A	ECHO	
CARD							• •		
COUNT	1	•• 2	3	4	• 5	6	7	. 8	9
601-	COUADS	108	100	7429	7477	7433	7385	•0	
602-	COUADS	109	100	7433	7481	7485	7437	•0	
603-	COUADS	110	100	7437	7485	7489	7441	•0	
604-	COUADZ	111	100	7441	7489	7493	7445	• 0	
605-	COUADS	112	100	7445	7493	7497	7449	•0	•
606-	COUADS	113	100	7449	7497	7501	7453	•0	
607-	CQUAD2	114	100	7453	7501	7505	7457	•0	نہ در م
608-	COUADS	115	100	7457	7505	7509	7461	•0	
609-	CQUAD2	116	1'00	7461	7509	7513	7465	•0	
610-	CQUAD2	117	100	7465	7513	7517	7469	•0	-
611-	COUADS	118	100	7469	7517	7521	7473	•0	
612-	COUADS	119	100	7473	7521	7525	7477	•0	
613-	CQUAD2	120	100	74 77	7525	7481	7433	•0	
614-	CQUAD2	121	100	7481	7529	7533	7485	•0	
615-	COUADS	122	100	7485	7533	7537	7489	•0	
616-	COUAD2	123	100	7489	7537	7541	7493	• 0	-
617-	CQUAD2	124	100	7493	7541	7545	7447	• 0	
618-	CQUAU2	125	100	7497	7545	7549	7501	•0	
619-	COUADS	126	100	7501	7549	7553	7505	•0	:
620-	COUAD2	127	100	7505	7553	7557	7504	•0	
621-	CQUAD2	128	100	7509	7557	7561	7513	•0	
622-	COUAD2	129	100	7513	7561	7565	7517	•0	•
623-	COUAD2	130	100	7517	7565	7569	7521	•0	
624-	COUAD2	131	100	7521	7569	7573	7525	•0	
625-	COUAD2	132	100	7525	7573	7529	7481	•0	,
626-	CQUAD2		100	7529	7577	7581	7533	•0	٠,
627-	COUAD2	134	100	7533	7581	7585	7537	•0	
628-	CQUAD2	135	100	7537	7585	7589	7541	•0	
629-	CQUAD2	136	100	7541	7589	7593	7545	•0	
630-	CQUAD2	137	100	7545	7593	7597	7549	•0	
631-	COUAD2	138	100	7549	7597	7601	7553	•0	·· - · ·
632-	CQUAD2	139	100	7553	7601	7605	7557	•0	
633-	CQUAD2	140	100	7557	7605	7609	7561	•0	•.*
634-	CQUAD2		100	7561	7609	7613	7565	•0	
635-	COUAD2	142	100	7565	7613	7617	7569	•0	
636-	CUUAD2	143	100	7569	1617	7621	7573	•0.:	
637-	COUAU2	144	100	7573	7621	7577	7529	•0	2.7
638-	COUAD2	201	200	7577	7801	7802	7581		•
639-	COUAD2	202	200	7581	7802	7804	7585		. :
640-	CQUAD2	203	200	7585	7804	7805	7589	* **** *	
641-	COUAD2	204	200	7589	7805	7807	7593		
642-	CQUAD2	205	200	7593	7807	7808	7597		
643-	CQUAD2	206	200	7597	7808	7809	7601		
644-	CQUAD2	207	200	7601	7809	7810	7605		
645-	CQUAD2	208	200	7605	7810	7812	7609		
646-	CQUADZ	209	500	7609	7812	7813	7613	turana sa ataumana na a Piri	
647-	CQUADZ	210	500	7613	7813	7815	7617		
648-	COUADZ	211	200	7617	7815	7816	7621		
649-	COUADS	212	200	7621	7816	7801	7577	na die e distancement de la consti	• •
650~	COUADZ		300	7801	7817	7818	7802	40	•
								•••	

•		:	SOPTE	D . B . C	LK D	ATA	E C H	0				
CARD								_				
COUNT . 1	•• 2		3 4	_••5	•• 6	7	••	8		9		10
651- CQUAD2	214	300	7802	7818	7819	7803	•0	_	•	•	• •	
652- COUAD2	215	300	7803 ·	7819	7820	7804	•0					
653- COUAD?	216	300	7804	7820	7821	7805						
654- CQUAD2	217	300	7805	7821	7822	7806	• 0					
655- CQUAD2	218	_					•0					
		300	7806	7822	7823	7807	•0					
656- COUADS	219	300	7807	7823	7824	7808	• 0				•	
	220	300	7808	7824	7825	7809	•0					
658- CQUAD2	221	300	7809	7825	7826 .	7810	• 0				-	
659- CQUAD2	222	300	<u>7610</u>	7826	7,82,7	7811	• 0					
660- COUAD2	223	300	7811	7827	7828.	7812	• 0					
661 - CQUAD2	224	300	7812	7828	7829	7813	•0					
662- CQUAD2	225	300	7813	7829	7830	7814	• 0			<u> </u>		
663-CQUAD2	226	300	7814	7830	7831	7815	.• Ö		•			
664- COUAD2	227	300	7815	. 7831	7832	7816	•0					٠.
665- CQUAD2	228	300	7816	7832	7817	.7801.	0					
666- COUAD2	229	300	7817	7833	7834	7818	•0					
667- CQUAD2	0.68	300	7818	7834	7835	7819	•0					
668- COUAD2	231	300	7819	7835	7836	7820	0					
669- CQUAD2	232	300	7820	7836	7837	7821	•0					٠.
670- CQUAD2	233	300	7821	7837	7838	7822	•0					
671- COUAD2	234	300	7822	7838	7839	7823	• 0					
672- COUAD2	235	300	7823	7839	7840	7824	• 0					
673- CQUAD2	236	300	7824	7840	7841	7825	•0					
674- COUAD2	237	300	7825	7841	7842	7826	•0		• • •			•
675- CQUAD2	238	300	7826	7842	7843	7827	•0	,				
676- COUAU2	239	300	7827	7843	7844	7028	•0				, i i i i i	
677- COUAD2		300	7828	7844	7845	7829	••					
678- COUADZ	- 241	300	7829	7845			•0		•			
679- COUADS					7846	78.30	•0					
-	242	300	7830	7846 7846	7847	78.31	. •0			•		
680- COUADS	243	300	7831	7847	7848	7832	• 0					
681- COUAD2	244	300	7832	7848	7833	7817	•0					
682- COUAD2	245	300	7833	7849	7850	7834	• 0				•	
683- CQUAD2	246	300	7834	7850	7851	7835	•0				•	
684- COUAD2	247	300	7835	7851	7852	7836	•0					
685- CQUAD2	248	300	7836	7852	7853	7837	• 0					
686- COUAD2	249	300	<u>. 7837</u>	7853	7854	7838	0			.: '	. .	
687- CQUAD2	250	300	7838	7854	7855	7839	• 0					
688- CQUAD2	251	300	7839	7855	7856	7840	• 0				•	
689- COUAD2	252	300	7840	7856	7857	7841	• 0					
690- COUAD2	253	300	7841	7857	7858	7842	•0		•		•	
691 - CQUAD2	254	300	7842	7858	7859	7843	•0				•	
692- CQUAD2	255	300	7843	7859	7860	7844	.0					
693- CQUAD2	256	300	7844	7860	7861	7845	.0					
694- CQUAD2	257	300	7845	7861	7862	7846	•0.			•		
695- CQUAD2	_258	300	7846	7862	7863	7847	•0					
696- COUAD2	259	300	7847	7863	7864	7848	•0					
697- CQUAD2	260	300	7848	7864	7849	7833	•0					
698- CQUAD2	261	300	7849	7865	7866	7850	0					
699- COUAD2	262	300	7850	7866	7867	7851	•0	•		····		-
700- COUADZ	263	300	7851	7867	7868	7852	•0					
TOO COUNTE	, 	500	71722		1000	FOOE	• •					

		s. 0	RTED	BUL	K D A	TA E	сно		
CARD		•					C	•	
COUNT . 1	2	3	4	•• 5	. 6	· 7	aa 8	. 9	10
701 - CQUAD2	264	300	7852	7868	7869	7853	•0		
702- CQUAD2	265	300	7853	7869	7870	7854	•0		
703- CQUAD2	266	300	7854	7870	7871	7855	• 0		
704- CUUAD2	267	300	7855	7871	7872	7856	•0	•	
705- CQUAD2	268	.300	7856	7872	7873	7857	•0		
706- CQUAD2	269	300	7857	7873	7874	7858	•0		
707- CQUAD2	270	300	7858	7874	7875	7859	•0		•
708- CQUAD2	271	300	7859	7875	7876	7860	•0	-	
709- COUAD2	272	300	7860	7876	7877	7861	•0		
710- CQUAD2	273	300	7861	7877	7878	7862	•0	•	
711 - CQUAD2	274	300	7862	7878	7879	7863	•0		•
711- COUAD2	275	300	7863	7879 .	7880	7864	.0	•	
713- CQUAD2	276	300	7864	7880	7865	7849	•0		
713- CUUAUZ 714- DMI	BFAC	0	2	1	2	(044		•	-
	The second second	-	1	-	- -		• .		
715- DMI	BFAC	<u></u>		1.0			•		-
716- DMI	CPAJC	0	2 .	1			1	,	
717- DMI	CPAJC	1	1	1.0	•				
718- UMT	EOR	0			2		6	9	
719 DM1	EQR		1 .	.012047	98033	8.196959	33.0854	~21.50	976.GI
720 - 6EQ1	-109.38								
721- DMI	EQR		· i	.05985	.197328	.978504	-26.016	4-10/.10	205505
722- EEQ2	23.201				_				
723- DMI	EQR	3		•99813	· .5	00105	1.27813	34 - 766	2 6103
724- 6E03	20.896	<u>.</u>	وأمار فيلوفو						-:
725- DMI	EQR	·* 4		•99813	3	06105	.913934	43.5110	0 61.04
726- EEQ4	14.942								
727- DN1	EOR			01204	7. 980338	19695	9-28-411	836.979	D EFG2
728- EE05.	185.793		_						. · ·
729- DMI	EQR ·	6	1 .	•05985	.197328	•978504	-20.960	8-183.7	148E06
730- EF-06	38.329				· 🚁		·		
731 - DNI	EQR	7	1	•99813	3	06105	1.14885	24.3949	5 EEQ7
732- &EQ7	18.782								
733- DMI	EUR	8 : -	1	01204	7,980338	19695	9-8-9482	536.979	EEON
734 - EEQ8	184.603								
735 - DMI	LOR	9	j .	•05985	•197328	•978504	-50-960	8-183.7	148509
736- EEQ9	38.329								
737- DMI	GFAC	0	2		2		1	1	
738- DMI	GFAC	1	1	1.0			4		• • •
739- DM1	KFAC	0	2	. 1	2		1	. 1	
740- DM1	KFAC	1	1	1.0		.*			
741- GROSET		100	:		•	100			
742- GRID	7289		9.750		118.160	-			
743- GRID	7290		7.560		118.160	-			
744- GRID	7291		5.370		11H.160				
745- GRID	7292		3.180	• .	118.160				
746- GRID	7293		9.750		118.160		•		
747- GRID	7294		7.560		118.160				
748- GRID	7295		5.370		118-160				
749- GRID	7296		3.180		118.160	4		•	
750- GRID	7297		9.750	120.000	118-160		, · ·		
					_				

		 5091EE	BULK DAT	A ЕСНО	
CARD					•
COUNT . 1	2	3 4	5	7 8 .	. 9 10
751- GRID	7298	7.560	120.000 118.160	•	
752- GRID	7299	5.370	120.000 118.160		•
753- GRID	7300	3.180	120.000 118.160	×2	
754- GRID	7301	9.750	90.000 118.160		
755- GRIU	7302	7.560	90.000 118.160		
756- GRID	/303	5.370	90.000 118.160		
757- GRID	7304	3.180	90.000 118.160	•	
758- GRID	7305	9.750	60.000 118.160		
759- GRID	7306	7,560	60.000 118.160		
760- GRID	7307	5.370	60.000 118.160		
761 - GRID	730A	3.180	60.000 118.160		
762- GRIU	7309	9.750	30.000 118.160		·),
763- GRID	7310	7.560	30.000 118.160	•	
764- GRID	7311	5.370	30.000 118.160	•	
765- GRID	7312	3,180	30.000 118.160		
766- GRID	7313	9.750	0.0 118.160	ē	
767- GRID	7314	7.560	0.0 118.160		
768- GRID	7315	5.370	0.0 118.160		
769 GRID	7316	3.180	0.0 118.160		
770~ GR1D	7317	9.750	-30.000 118.160		
771 - GRID	7318	7.560 5.370	-30.000 118.160		
772 - GRID	7319		-30.000 118.160		
773- GRID	7320	3.180	+30.000 118.160 -40.000 118.160		,
774 - GRID	7321 7322	9.750 7.560	-60.000 118.160 -60.000 118.160		
776- GRID	7323	5.370	-60.000 118.160		i
777- GRID	7324	3.180	-60.000 118.160		
778- GRID	7.325	9.750	-90.000 118.160		
779- GRID	7326	7.560	-90.000 118.160		
780- GRID	7327	5.370	-90.000 118.160		•
781 - GRID	7328	3.180	-90.000 118.160	•	,
782- GRID	7329	9.750	-120.000118.160		
783- GRID	7330	7.560	-120.000118.160		
784 - GRID	7331	5.370	-120.000118.160		
785- GRID	7332	3.180	-120.000118.160		
786- GR1D	7333	9.750	-150.000118.160		
787- GRID	7334	7.560	-150.000118.160		
788- GRID	7335	5.370	-150.000118.160		
789- GRID	7336	3.180	-150.000118.160		
790- GRID	7337	9.750	180.000 130.437		
791 - GRID	7338	7.560	180.000 130.437		
792- GRID	7339	5.370	180.000 130.437		
793- GRID	7340	3.180	180.000 130.437		
794- GRID	7341	9.750	150.000 130.437	•	•
795- GRID	7342	7.560	150.000 130.437		
790- GRID	7343	5.370	150.000 130.437	•	
797- GRID	7344	3.180	150.000 130.437		
798- GRIU	7345	9.750	120.000 130.437	* .	≠
799- GRID	7346	7.560	120.000 130.437		
800- GRID	7347	5.370	120.000 130.437		

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CARD								
COUNT . 1	2	_3 4 .		6 .	. 7 .	• , 8	• • 9	•• 10
801 - GRID	7348	3.180	120.000	130.437				
802- GRID	7349	9.750	90.000	130.437				
803- GRID	7350	7.560	90.000	130,437				
804- GRIU	7351	5.370	90.000	130.437				•
805- GP10	7352	3.180	40.000	130.437				
806- GRID	7353	9.750	60.000	130.437				
807- GRID	7354	7.560	60.000	130.437	_		•	
808- GRID	7355	5.370	60.000	130.437				
809- GRID	7356	3.180	60.000	130.437			,	
810- GRID	7357	9.750	30.000	130.437				
811 - GRID	7358	7.560	30.000	130.437				
812 - GRID	7359	5.370	30.000	130.437				
813- GRID	7360	3.180	30.000	130.437				•
814- GR1D	7361	9.750	0.0	130.437	•	• • •		
815- GRID	7362	7,560	0.0	130.437				
816- GRID	7363	5.370	0.0	130.437				
817- GRID	7364	3.180	0.0	130.437				
818-GPT0	7365	9.750	-30.000	130.437			_	•
819- GRID	7366	7.560	-30.000	130.437	٠.			•
820- GR10	7367	5.370	-20.000	130.437	•		•	
821 - GRID	7368	3.180	-30.000					
822- GRIU	7369	9.750	-60.000	•				
823- GRID	7370	7.560		130.437			*	
624- GRID	7371	5.370	-60.000					*
825- GRIU	7372	3.180	-60.000		-···	•		
826- GRID	7373	9.750	-90.000					
827- GRID	7374	7.560	-90.000	٠		,		
828- GRID	7375	5.370	-90.000					
829- GRID	7376	3.180	-90.000					
830- GHID	7377	9.750	-120.000					· ·
831 - GRID	7378	7.560	-120.000			** * * * *	** 	
832 - GRID	7379	5.370		130.437				
833- GRID	7380	3.180	-120.000				•	
834- GRID	7381	9.750		130.437				•
835- GRID	7382	7.560		130.437	•			
836- GRID	7383	5.370	-150.000					
837- GRID	7384	3.180	-150.000	• • •	*		• • •	. :
838- GRID	7385	9.750	180.000			** . *		:
839- GRID	7386	7.560		142.713				
840- GRIU	7387	5.370	180.000	-				
841 - GRID	7388	3.180			•			
842- GRID		•	180.000					
	7389	9.750	150.000					*
843- GRID	7390	7.560	150.000				٠.	
844- GRID	7391	5.370	150.000					
845- GRID	7392	3-180	150.000	•			•	٠
846- GRID	7393	9.750	120.000				•	•
847- GRID	7394	7.560	120.000					
848- GRID	7395	5.370	120.000					٠,
849- GRID	7396	3.180	120.000	142.713	٠.			

		SORTED BULK DATA ECHO
CARD		
COUNT . 1	2	3 . 4 . 5 . 6 . 7 . 8 . 9 . 1
851- GRID	7398	7.560 90.000 142.713
852- GRID	7399	5.370 90.000 142.713
853- GRID	7400	3.180 90.000 142.713
854- GRID	7401	9.750 60.000 142.713
855+ GRID	7402	7-560 60-000 142-713
856- GRID	7403	5.370 60.000 142.713
857- GRID	7404	3.180 60.000 142.713
858- GRID	7405	9.750 30.000 142.713
859- GRID	7406	7,560 30,000 142,713
860- GRID	7407	5.370 30.000 142.713
861- GRID	7408	3.180 30.000 142.713
862- GRID	7409	9.750 0.0 142.713
863- GRID	7410	7.560 0.0 142.713
864- GRID	7411	5.370 0.0 142.713
865- GRID	7412	3.180 0.0 142.713
866- GRID	7413	9.750 -30.000 142.713
867- GRID	7414	7.560 -30.000 142.713
868- GRID	7415	5.370 -30.000 142.713
869- GRID	7416	3-180 -30-000 142-713
870- GRID	7417	9.750 -60.000 142.713
871- GRID	7418	
872- GRID	7419.	
873- GRID	7420	5.370 -60.000 142.713
874- GRID		3.180 -60.000 142.713
875- GRID	7421 7422	9.750 -90.000 142.713
876 GRID	7423	7.560 -90.000 142.713
877- GRID		5.370 -90.000 142.713
878- GRID	7424	3.180 -90.000 142.713
879- GRID	7425	9.750 -120.000142.713
880- GRID	7426	7.560 -120.000142.713
	7427	5.370 -120.000142.713
881-GRID	7428	3.180 -120.000142.713
882-GRID	7429	9.750 -150.000142.713
883- GRID	7430	7.560150.000142.713
884- GRID	7431	5.370 -150.000142.713
885- GRID	74.32	3.180 -150.000142.713
886- GRID	7433	9+750 180+000 154+990
887-GRID	7434	7.560 180.000 154.990
888- GRID	7435	5.370 180.000 154.990
889-GRID	7436	3-180 180-000 154-990
890- GRID	7437	9.750 150.000 154.990
891 - GR1D	7438	7.560 150.000 154.990
892- GRID	7439	5.370 150.000 154.990
893- GRID	7440	3.180 150.000 154.990
894- GRID	7441	9.750 120.000 154.990
895- GRID	7442	7.560 120.000 154.990
896- GRID	7443	5.370 120.000 154.990
897 - GRID	7444	3.180 120.000 154.990
898- GRID	7445	9.750 90.000 154.990
899-GRID	7446	7.560 90.000 154.990
900- GRID	7447	5.370 90.000 154.990
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COUNT . 1	2	3 4	5			,					
901- GRID	7448	3.180		154 . 990	•			• •	. "	• •	10
902- GRID	7449	9.750	60.000			•					
903- GR1D	7450										
904- GRID	7451	7.560	60.000						-		
		5.370	60.000								
905 - GRID	7452	3.180	60.000								
906- GRID	7453	9.750	30.000					•			
907- GRID	7454	7.560	30.000	and the second second		٠.					
908- GRID	7455	5.370	30.000		•	٠.	•		٠.		
909- GRID	7456	3.180	30.000								
910- GRID	7457	9.750	0.0	154.990							
911- GRID	7458	7.560	0.0	154.990		•					
912- GRIU	7459	5.370	0.0	154.990			•	-			
913- GRID	7460	3.180	0.0	154.490							
914- GRID	7461	9.750		0 154.990.							
915- GRID	7462	7.560		0 154.990			•				
916- GRI D	7463	5.370		0 154.990							
917- GR10	7464	3.180	-30.00	0 154,990							
918- GRID	7465	9.750	-60.00	0 154.990				1.			
919- GRID	7466	7.560	-60.00	0 154.990					•		
920- GRID	7467	5.370	-60.00	0 154.990			٠.				٠.,
921- GRID	7468	3.180	60.00	0 154.990	٠.						
922- GRID	7469	9.750	~90.00	0 154.990							
923- GRID	7470	7.560	-90.00	0 154.990		•		•			
924- GRID	7471	5.370	_90,00	0_154.990							
925- GRID	7472	3.180	-90.00	0 154.990	."				•	1	
926- GRID	7473	9.750	-120.0	00154.990						٠.	~
927- GRID	7474	7.560	-120.0	00154.990	٠					•	
928- GRID	7475	5.370	-120.00	00154.990	•				•		
929- GRID	7476	3.180	-120.0	00154.990							
930- GRIU	7477	9.750	150.0	00154.990				-			
931- GRID	7478	7.560	-150.0	00154.990				- 1		•	
932- GRID	7479	5.370	-150.00	00154.990					•		
933- GRID	7480	3.180	-150.00	00154.990				•	٠.		
934- GRID	7481	9.750	180.00	0 167.267							•
935- GRID	7482	7.560	180.00	0 167.267			. •				
936- GRID	7483	5.370	180.000	0 167.267							
937- GRID	7484	3.180		0 167.267							
938- GRID	7485	9.750		0 167.267				٠. ٠		٠.	
939- GRID	7486	7.560		0 167.267		. *					•
940- GRID	7487	5.370		0 167.267		• .		· ·			
941- GR1U	7488	3.180		0 167.267			•				
442- GRID	7489	9.750		0 167.267		•					
943- GRID	7490	7.560		0 167.267						•	_
944- GRID	7491	5.370		0 167.267							
945- GRID	7492	3.180		0 167.267							
946- GRID	7493	9.750	90.000					•			
947- GRID	7444	7.560	90.000								
948 - GRID	7495	5.370_	90.000				•				
949- GRID	7496	3.180	90.000			• • . •					
950- GRID	7497	9.750	60.000	167.267					٠.		
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CAND COUNT, 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 951-GRID 7498		•	SORTE	D, B N F	LK DA	TÄECHU
951- GRID 7498 7.560 60.000 167.267 952- GRID 7499 5.370 60.000 167.267 953- GRID 7500 3.180 60.000 167.267 954- GRID 7501 9.7503 30.000 167.267 955- GRID 7502 7.560 30.000 167.267 955- GRID 7503 5.370 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 958- GRID 7505 9.750 0.0 167.267 959- GRID 7505 1.590 0.0 167.267 960- GRID 7507 5.370 0.0 167.267 960- GRID 7508 3.180 0.0 167.267 963- GRID 7509 9.750 -30.000 167.267 963- GRID 7510 7.560 -30.000 167.267 964- GRID 7511 5.370 -30.000 167.267 965- GRID 7512 3.180 -30.000 167.267 966- GRID 7513 9.750 -00.000 167.267 967- GRID 7514 7.560 -00.000 167.267 969- GRID 7515 5.370 -00.000 167.267 969- GRID 7516 3.180 -00.000 167.267 970- GRID 7517 9.750 -90.000 167.267 971- GRID 7518 7.560 -90.000 167.267 972- GRID 7519 5.370 -00.000 167.267 973- GRID 7519 5.370 -00.000 167.267 973- GRID 7519 5.370 -00.000 167.267 974- GRID 7519 5.370 -00.000 167.267 975- GRID 7519 5.370 -00.000 167.267 976- GRID 7519 5.370 -00.000 167.267 976- GRID 7519 5.370 -00.000 167.267 977- GRID 7519 5.370 -00.000 167.267 978- GRID 7520 3.180 -00.000 167.267 979- GRID 7520 3.180 -100.000167.267 979- GRID 7520 3.180 -100.000167.267 979- GRID 7520 3.180 -100.000167.267 979- GRID 7520 7.560 -150.000167.267 979- GRID 7520 7.560 -150.000167.267 979- GRID 7520 7.560 150.000167.267 979- GRID 7520 7.560 150.000167.267 999- GRID 7520 7.560 150.000179.543 990- GRID 7530 7.560 150.000 179.543 990- GRID 7534 7.560 150.000 179.543 990- GRID 7545 7.560 150.000 179.543 990- GRID 7546 7.560 60.000 179.543	CARD			•		
952-CRID 7499 5,370 60,000 167,267 953-CRID 7500 3.180 60,000 167,267 954-CRID 7501 9,750 30,000 167,267 955-CRID 7502 7,560 30,000 167,267 955-CRID 7503 5,370 30,000 167,267 957-CRID 7504 3,180 30,000 167,267 958-CRID 7505 9,750 0.0 167,267 959-CRID 7506 7,550 0.0 167,267 959-CRID 7506 7,550 0.0 167,267 960-CRID 7506 7,550 0.0 167,267 961-CRID 7508 3,180 0.0 167,267 961-CRID 7508 3,180 0.0 167,267 962-CRID 7509 9,750 -30,000 167,267 963-CRID 7510 7,560 -30,000 167,267 963-CRID 7511 5,370 -30,000 167,267 964-CRID 7511 5,370 -30,000 167,267 965-CRID 7512 3,180 -30,000 167,267 966-CRID 7513 9,750 -60,000 167,267 968-CRID 7515 5,370 -60,000 167,267 969-CRID 7515 5,370 -60,000 167,267 971-CRID 7518 7,560 -90,000 167,267 972-CRID 7519 5,370 -90,000 167,267 973-CRID 7519 5,370 -90,000 167,267 973-CRID 7519 5,370 -90,000 167,267 974-CRID 7520 3,180 -60,000 167,267 975-CRID 7520 3,180 -90,000 167,267 976-CRID 7520 9,750 -150,000167,267 976-CRID 7531 9,750 9,75	COUNT 1	<u> </u>	3 4		<u></u>	
953- GRID 7500 3.180 60.000 167.267 954- GRID 7501 9.7503 30.000 167.267 955- GRID 7502 7.560 30.000 167.267 955- GRID 7503 5.370 30.000 167.267 956- GRID 7504 3.180 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 958- GRID 7505 9.750 0.0 167.267 959- GRID 7506 7.560 0.0 167.267 969- GRID 7506 7.560 0.0 167.267 969- GRID 7507 5.370 0.0 167.267 960- GRID 7508 3.180 0.0 167.267 961- GRID 7508 3.180 0.0 167.267 963- GRID 7510 7.560 -30.000 167.267 963- GRID 7511 5.370 -30.000 167.267 964- GRID 7512 3.180 -30.000 167.267 965- GRID 7513 9.750 -60.000 167.267 966- GRID 7514 7.560 -60.000 167.267 969- GRID 7515 5.370 -60.000 167.267 970- GRID 7516 3.180 -60.000 167.267 971- GRID 7517 9.750 -90.000 167.267 971- GRID 7518 7.560 -90.000 167.267 972- GRID 7519 5.370 -90.000 167.267 973- GRID 7519 5.370 -90.000 167.267 974- GRID 7519 5.370 -90.000 167.267 975- GRID 7519 5.370 -90.000 167.267 976- GRID 7520 3.180 -90.000 167.267 977- GRID 7520 3.180 -90.000 167.267 978- GRID 7522 7.560 -120.000167.267 979- GRID 7523 5.370 -120.000167.267 979- GRID 7525 9.750 -120.000167.267 979- GRID 7525 9.750 -120.000167.267 980- GRID 7525 9.750 -150.000167.267 981- GRID 7529 9.750 -150.000167.267 981- GRID 7529 9.750 -150.000167.267 982- GRID 7529 9.750 -150.000167.267 983- GRID 7529 9.750 -150.000167.267 983- GRID 7530 7.560 180.000167.267 983- GRID 7531 5.370 190.000167.267 983- GRID 7535 3.180 180.000 179.543 984- GRID 7535 3.180 180.000 179.543 985- GRID 7536 3.180 150.000 179.543 986- GRID 7536 3.180 150.000 179.543 987- GRID 7536 3.180 150.000 179.543 989- GRID 7540 3.180 150.000 179.543 989- GRID 7540 3.180 150.000 179.543 990- GRID 7540 3.180 190.000 179.543 990- GRID 7540 5.370 9.0000 179.543				60.000	167.267	
955- GRID 7502 7.560 30.000 167.267 956- GRID 7502 7.560 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 957- GRID 7505 9.750 0.0 167.267 958- GRID 7505 9.750 0.0 167.267 959- GRID 7506 7.590 0.0 167.267 960- GRID 7507 5.370 0.0 167.267 961- GRID 7508 3.180 0.0 167.267 961- GRID 7508 3.180 0.0 167.267 961- GRID 7509 9.750 -30.000 167.267 962- GRID 7509 9.750 -30.000 167.267 963- GRID 7510 7.560 -30.000 167.267 964- GRID 7511 5.370 -30.000 167.267 965- GRID 7512 3.180 -30.000 167.267 965- GRID 7513 9.750 -00.000 167.267 966- GRID 7514 7.560 -00.000 167.267 967- GRID 7515 5.370 -00.000 167.267 969- GRID 7516 3.180 -00.000 167.267 970- GRID 7517 9.750 -90.000 167.267 971- GRID 7518 7.560 -90.000 167.267 972- GRID 7519 5.370 -90.000 167.267 973- GRID 7519 5.370 -90.000 167.267 974- GRID 7519 5.370 -90.000 167.267 975- GRID 7523 3.180 -90.000 167.267 975- GRID 7523 5.370 -120.000167.267 976- GRID 7523 5.370 -120.000167.267 976- GRID 7524 3.180 -90.000 167.267 976- GRID 7525 9.750 -120.000167.267 978- GRID 7526 7.560 -120.000167.267 979- GRID 7528 3.180 -120.000167.267 979- GRID 7526 7.560 -150.000167.267 980- GRID 7526 7.560 -150.000167.267 980- GRID 7526 7.560 -150.000167.267 980- GRID 7530 7.560 180.000 179.543 980- GRID 7531 5.370 -150.000167.267 981- GRID 7536 3.180 180.000 179.543 980- GRID 7536 3.180 120.000 179.543 980- GRID 7536 3.180 120.000 179.543 990- GRID 7544 3.180 120.000 179.543 990- GRID 7545 9.750 120.000 179.543 990- GRID 7546 7.560 90.000 179.543	952- GRID	7499	5.370	60.000	167.267	
955- GRID 7502 7.550 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 957- GRID 7504 3.180 30.000 167.267 958- GRID 7505 9.750 0.0 167.267 959- GRID 7506 7.550 0.0 167.267 960- GRID 7507 5.370 0.0 167.267 961- GRID 7508 3.180 0.0 167.267 962- GRID 7509 9.750 -30.000 167.267 963- GRID 7510 7.550 -30.000 167.267 964- GRID 7511 5.370 -30.000 167.267 965- GRID 7512 3.180 -30.000 167.267 965- GRID 7513 9.750 -60.000 167.267 966- GRID 7514 7.560 -60.000 167.267 968- GRID 7515 5.370 -60.000 167.267 969- GRID 7516 3.180 -00.000 167.267 970- GRID 7517 9.755 -90.000 167.267 971- GRID 7518 7.550 -90.000 167.267 972- GRID 7519 5.370 -00.000 167.267 973- GRID 7520 3.180 -90.000 167.267 973- GRID 7520 3.180 -90.000 167.267 974- GRID 7520 3.180 -90.000 167.267 975- GRID 7521 9.7550 -120.000167.267 976- GRID 7520 3.180 -90.000 167.267 976- GRID 7521 9.7550 -120.000167.267 976- GRID 7522 7.5500 -120.000167.267 977- GRID 7524 3.180 -90.000 167.267 978- GRID 7525 9.750 -120.000167.267 979- GRID 7526 7.5500 -150.000167.267 980- GRID 7527 3.370 -150.000167.267 981- GRID 7528 3.180 -150.000167.267 982- GRID 7526 7.550 150.000167.267 982- GRID 7526 7.550 150.000167.267 983- GRID 7526 7.550 150.000167.267 984- GRID 7527 5.370 -150.000167.267 985- GRID 7528 3.180 -150.000167.267 986- GRID 7530 7.550 180.000 179.543 986- GRID 7531 5.370 180.000 179.543 986- GRID 7530 7.550 180.000 179.543 986- GRID 7530 7.550 180.000 179.543 986- GRID 7530 7.550 180.000 179.553 989- GRID 7540 3.180 180.000 179.553 990- GRID 7540 3.180 180.000 179.553 990- GRID 7540 3.180 120.000 179.553 990- GRID 7540 3.180 120.000 179.553 990- GRID 7540 3.180 120.000 179.553 990- GRID 7545 9.750 120.000 179.553 990- GRID 7546 7.550 6.000 179.553	953- GRID	7500	3.180	000.00	<u> 167267</u>	
956- GRID 7504 3.180 30.000 167.267 958- GRID 7506 7.504 0.0 167.267 959- GRID 7506 7.509 9.750 0.0 167.267 959- GRID 7506 7.509 9.750 0.0 167.267 960- GRID 7506 7.509 0.0 167.267 961- GRID 7508 3.180 0.0 167.267 961- GRID 7509 9.750 -30.000 167.267 963- GRID 7509 9.750 -30.000 167.267 963- GRID 7510 7.560 -30.000 167.267 964- GRID 7511 5.370 -30.000 167.267 965- GRID 7513 9.750 -60.000 167.267 965- GRID 7514 7.560 -60.000 167.267 966- GRID 7515 3.180 -30.000 167.267 969- GRID 7516 3.180 -00.000 167.267 970- GRID 7516 3.180 -60.000 167.267 971- GRID 7516 3.180 -60.000 167.267 971- GRID 7518 7.560 -90.000 167.267 972- GRID 7518 7.560 -90.000 167.267 973- GRID 7519 5.370 -90.000 167.267 973- GRID 7519 5.370 -90.000 167.267 974- GRID 7520 3.180 -90.000 167.267 975- GRID 7520 3.180 -90.000 167.267 976- GRID 7521 9.750 -120.000167.267 977- GRID 7524 3.180 -120.000167.267 978- GRID 7525 9.750 -120.000167.267 979- GRID 7526 3.180 -120.000167.267 979- GRID 7528 3.180 -120.000167.267 979- GRID 7528 3.180 -150.000167.267 979- GRID 7528 3.180 -150.000167.267 980- GRID 7529 3.180 -150.000167.267 980- GRID 7520 3.180 -150.000167.267 981- GRID 7520 3.180 -150.000167.267 980- GRID 7530 7.550 1.500.000167.267 980- GRID 7530 7.550 1.500.000167.267 980- GRID 7530 7.550 1.500.000167.267 981- GRID 7530 7.550 1.500.000167.267 982- GRID 7530 7.550 1.500.000167.267 981- GRID 7531 9.750 1.500.000167.267 982- GRID 7530 7.550 1.500.000167.267 982- GRID 7530 7.550 1.500.000167.267 983- GRID 7530 7.550 1.500.000179.543 984- GRID 7531 9.750 1.500.000179.543 985- GRID 7534 7.550 1.500.000179.543 989- GRID 7534 7.550 1.500.000179.543 989- GRID 7534 7.550 1.500.000179.543 989- GRID 7544 3.180 90.000 179.543 999- GRID 7545 7.545 90.000 179.543 999- GRID 7546 7.550 0.000 179.543 999- GRID 7546 7.550 0.000 179.543	954 GRID	7501	9.750	30.000	167.267	
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987- GRID 7534 7.560 150.000 179.543 988- GRID 7535 5.370 150.000 179.543 989- GRID 7536 3.180 150.000 179.543 990- GRID 7537 9.750 120.000 179.543 991- GRID 7538 7.560 120.000 179.543 992- GRID 7539 5.370 120.000 179.543 993- GRID 7540 3.180 120.000 179.543 994- GRID 7541 9.750 90.000 179.543 995- GRID 7542 7.560 90.000 179.543 996- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7545 9.750 60.000 179.543 998- GRID 7545 9.750 60.000 179.543						•
988- GRID 7535 5.370 150.000 179.543 989- GRID 7536 3.180 150.000 179.543 990- GRID 7537 9.750 120.000 179.543 991- GRID 7538 7.560 120.000 179.543 992- GRID 7539 5.370 120.000 179.543 993- GRID 7540 3.180 120.000 179.543 994- GRID 7541 9.750 90.000 179.543 995- GRID 7542 7.560 90.000 179.543 996- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7545 9.750 60.000 179.543 998- GRID 7545 9.750 60.000 179.543						
989- GRID 7536 3.180 150.000 179.543 990- GRID 7537 9.750 120.000 179.543 991- GRID 7538 7.560 120.000 179.543 992- GRID 7539 5.370 120.000 179.543 993- GRID 7540 3.180 120.000 179.543 994- GRID 7541 9.750 90.000 179.543 995- GRID 7542 7.560 90.000 179.543 997- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7545 9.750 60.000 179.543 999- GRID 7546 7.560 60.000 179.543			the state of the s			• •
990- GRID 7537 9.750 120.000 179.543 991- GRID 7538 7.560 120.000 179.543 992- GRID 7539 5.370 120.000 179.543 993- GRID 7540 3.180 120.000 179.543 994- GRID 7541 9.750 90.000 179.543 995- GRID 7542 7.560 90.000 179.543 996- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7545 9.750 60.000 179.543 999- GRID 7545 9.750 60.000 179.543	_			150.000	0 179.543	
991 - GRID 7538 7.560 120.000 179.543 992 - GRID 7539 5.370 120.000 179.543 993 - GRID 7540 3.180 120.000 179.543 994 - GRID 7541 9.750 90.000 179.543 995 - GRID 7542 7.560 90.000 179.543 996 - GRID 7543 5.370 90.000 179.543 997 - GRID 7544 3.180 90.000 179.543 998 - GRID 7545 9.750 60.000 179.543 999 - GRID 7546 7.560 60.000 179.543	989- GRID	7536	3.180	150.000	0 179.543	•
992-GRID 7539 5.370 120.000 179.543 993-GRID 7540 3.180 120.000 179.543 994-GRID 7541 9.750 90.000 179.543 995-GRID 7542 7.560 90.000 179.543 996-GRID 7543 5.370 90.000 179.543 997-GRID 7544 3.180 90.000 179.543 998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543	990- GRID	7537	9.750	120.000	0 179.543	
993- GRID 7540 3.180 120.000 179.543 994- GRID 7541 9.750 90.000 179.543 995- GRID 7542 7.560 90.000 179.543 996- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7555 9.750 60.000 179.543 999- GRID 7546 7.560 60.000 179.543	991 - GRID	7538	7.560	120.000	0 179.543	
994-GRID 7541 9.750 90.000 179.543 995-GRID 7542 7.560 90.000 179.543 996-GRID 7543 5.370 90.000 179.543 997-GRID 7544 3.180 90.000 179.543 998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543		7539		120.000	0 179.543	ا د الرومول فالمن المجمول المجمول المراجعة المراجعة المراجعة المحاسبة المحاسبة المراجعة المراجعة المراجعة المحاسبة
995-GRID 7542 7.560 90.000 179.543 996-GRID 7543 5.370 90.000 179.543 997-GRID 7544 3.180 90.000 179.543 998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543	993- GRID	7540	3-180	120.00	0 179.543	
996- GRID 7543 5.370 90.000 179.543 997- GRID 7544 3.180 90.000 179.543 998- GRID 7545 9.750 60.000 179.543 999- GRID 7546 7.560 60.000 179.543	994- GRID	7541	9.750	90.000	179.543	
997-GRID 7544 3.180 90.000 179.543 998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543	995- GRID	7542	7.56 <u>0</u>	90.000	179.543	
998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543	996- GRID	7543	5.370	90.000	179.543	•
998-GRID 7545 9.750 60.000 179.543 999-GRID 7546 7.560 60.000 179.543	997- GRID	7544	3.180	90.000	179.543	
999- GRID 7546 7.560 60.000 179.543	998- GRID		9.750	60.000	179.543	

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CARD				•					-
COUNT . 1	·· 2 ··	3 4	_••5 ,	• • • •	. 7 . ••	8 .	• 9	. ••	10
1001- GRID	7548	3.180	60.000	179.543	.*				
1002- GRID	7549	9.750	30.000	179.543				•	
1003- GRID	7550	7.560	30.000	179.543			•		
1004- GRID	7551	. 5.370	30.000	179.543	•				
1005- GRID	7552	3.180	30.000	179.543					
1006- GRID	7553	9.750	0.0	179.543					
1007- GRID	7554	7.560	0.0	179.543				·	•
1008- GRID	7555	5.370	0.0	179.543					
1009- GRID	7556	3.180	0.0	179.543					
1010- GRID	.7557	9.750	-30.000	179.543			•		
1011- GRID	7558	7.560	-30.000			*			
1012- GRID	7559	5.370	-30.000	179.543			,		
1013-GRID	7560	3.180		179.543					
1014- GRID	7561	9.750		179.543					
1015- GRID	7562	7.560		179.543	•	• •			
1016- GRID	7563	5.370		179.543					
1017- GRID	7564	3.180		179.543					
1018- GRID	7565	9.750		179.543					
1019- GRID	7566	7-560		179.543				:	100
1020- GRID	7567	5.370		179.543			100		
1021 - GRID	7568	3.180		179.543					٠.
1022- GRID	7569	9.750		0179.543			: .	• '	
1023- GRID	7570	7.560		0179.543					
1024 - GRID	7571	5.370		0179.543					•
1025- GRID	7572	3.180		0179.543					
1026- GRID	7573	9.750		0179.543					
1027- GR1D	7574	7.560		0179.543		- :			
1028- GRID	7575	5.370		0179.543		•			
1029 GRID	7576	3.180		0179•543		•	•		
1030- GRID	7577	9.750		191.820					
1031 - GRID	7578	7.560		191.820			• ;		
1032- GRID	7579	5.370				· · ·			
1033- GRID	7580	3.180		191.820		•			.•
1033- GRID	7581			191-820					
1035- GRID	7582	9.750		191.820		<i>:</i>		•	
		7.560		191.820				•	
1036- GRID 1037- GRID	7583 7 584	5.370		191.820	جديه إلفته	ومدددات			- •
1038 - GRID	7585	3.180		191.820			× .		
1039- GRID	7586	9.750		191.820					
		7.560		191 -820					
1040- GRID	7587	5.370	120.000				•		
1041- GRID	7588	3.180		191.820	•				
1042- GRID	7589	9.750				. 2.			
1043- GRID	7590	7.560	90.000	191.820					
1044- GRID	7591	5.370	90.000	191.820	•			•	•
1045- GRID	7592	3.180		191.820					
1046- GRID	7593	9.750	60.000	191.820	•	•			
1047- GRID	7594	7.560	60.000	191.820					
1048- GRID	7595	5.370	60.000	191.820	بشاسا يدعونا				
1049- GRID	7596	3.180	60.000	191.820					
1050- GRID	7597	9.750	30.000	191.820	;	•			

5 (RTEC	BUL	K DA	I A	ECI	ďρ	
CARD							
CDUNT 1 2 3	4	. 5		7		8	10
1051-GRID 7598	7.560	30.000	191.820	•			
1052-GR1D 7599	5.370	30.000	191.820	••			
1053- GRID 7600	3.180	30.000	191.820				•
1054- GRID 7601	9.750	0.0	191.820		•		
1055- GRID 7602	7.560	0.0	191.820		•	•	
1056-GRID 7603	5.370	0.0	191.820				
1057-GRID 7604	3.180	0.0	191.820				
1058-GRIU 7605	9.750	-30.000	191.820				
1059- GRID 7606	7.560	-30.000	191.820				•
1060-GRID 7607	5.370	-30.000	191.820				
1061-GRID 7608	3.180	-30.000	191.820				
1062-GRID 7609	9.750	-60.000	191.820			•	
1063-GRID 7610	7.560	-60.000	191.820	٠.			
1064-GRID 7611	5.370		191.820			* · · · · · · · · · · · · · · · · · · ·	
1065-GRID 7612	3,180		191.820				•
1066- GRIU 7613	9.750		191.820	•			•
1067-GR1D 7614	7560		191.820				•
1068- GRID 7615	5,370		191.820				
1069-GRID 7616	3.180		191.820	-			
1070-GRID 7617	9.750		0191-820				
1071-GRID 7618	7.560		0191.820				
1072- GRID 7619	5.370		0191.820	٠.			
1073-GRID 7620	3.180		0191.820		٠,		
1074- GRID 7621	9.750		0191.820	•			
1075-GRID 7622	7.560		0191.820				
1076-GRID 7623	5.370		0191.820			•	
1077-GRID 7624	3.180		0191-820				
107H-GHID 7HO1	9.75	180.0	146.24	,	0		
1079-GHTU 7802	4.75	150.0	196.25		o		
1080-GRID 7803		7 131.363			. 0		•
1081-GRID 7804	9.75	120.0	196.25		Ö		
1082-GHID 7805	9.75	90.0	196+25	٠.	o		
1083-GRID 7806		7 71.383	196.25		0.	•	•
1084-GRID 7807	9.75	60.0	196.25		0		
1085-GRID 7808	9.75	30.0	196.25		ō		
1086-GHID 7809	9.75	0.0	196.25		Ö		•
1087-GRID 7810	9.75	-30.0	196.25		ő		
1088-GRID 7811		7 -48.617			Ö.		
1089-GRID 7812	9.75	-60.0	196.25		0		
1090- GRID 7813	9.75	-90.0	196.25		ō	•	•
1091-GRID 7814		7 -108.61			Ü	•	
1092-GRID 7815	9,75	-120.0	196.25		<u>.</u>		•
1093-GRID 7816	9.75	-150.0	196.25		0		
1094-GRID 7817	11.125	180.0	201.6725		. 0		
1095-GRID 7818	11-125		201.6725		ŏ		
1096-GRID 7819		37131.383			0	•	
1097-GRID. 7820	11.125	120.0	201.6725		o		
1098- GRID 7821	11.125	90.0	201.6725		ō		
1099-GRID 7822		3771.383	201.6725		. 0		
1100-GRID 7823	11.125	,	201.6725		0.		
7.77				-	-		

	SORTED BUL	K DAT	A E C	μO	
CARD		•			• • • • •
COUNT . 1 2	3 4 5	6	7	8	9 10 .
1101- GRID 7824	11.125 30.0	201.6725	. 0		
1102- GRID 7825	11.125 0.0	201.6725	. 0	•	•
1103- GRID 7826	11.125 -30.0	201.6725	0		
1104- GRID 7827	10.76737-48.617	•	0		
1105- GRID 7828	11.125 -60.0	201.6725	0		
1106- GRID 7829	11.125 -90.0	201-6725	Đ		
1107- GRID 7830	10.76737-108.61				• •
1108- GRID 7831	11.125 -120.0	201.6725	. 0	•	•
1109- GRID 7832	11.125 -150.0	-	ŏ		
1110- GRID 7833	12.5 180.0	207.095	Ö		• .
1111- GRID 7834	12.5 150.0	207.095	Ö		
1112- GRID 7835	12.09817131.383		. Ö		
1113- GRID 7836	12.5 120.0	207.095	0		
	12.5 90.0		0		
	•	207.095	.0		
	12,0981771.383				
1116- GRIU 7839	12.5 60.0	207.095	0		
1117- GRID 7840	12.5 30.0	207.095	-		
1118- GRID 7841	12.5 0.0	207.095	0		1
1119- GRID 7842	12.5 -30.0	207.095	0		
1120- GRID 7843	12.09817-48.617		0	•	
1121- GRID 7844	12.5 -60.0		0		•
1122- GRID 7845	12.5 -90.0	207.095	0		
1123- GRID 7846	12.09817-108.61		0		• -
1124- GRID 7847		207.095	0		
1125- GRID 7848	12.5 -150.0	207.095	0		
1126- GRID 7849	13.875 180.0	212.5175	•		
1127- GRID 7850	13.875 150.0		0		
1128- GRID 7851	13.42897131.383	212.5175	0		
1129- GRID 7852	13.875 120.0	212.5175	O		
1130- GRID 7853	13.875 90.0	212.5175	.0		
1131- GRID 7854	13.4289771.383	212.5175	0		•
1132- GRID 7855	13.875 60.0	212.5175	0		
1133- GRID 7856	13.875 30.0	212.5175	. 0		
1134- GRID 7857	13.875 0.0	212.5175	0		
1135- GRID 7858	13.875 -30.0	212.5175	0		•
1136- GRID 7859	13.42897-48.61	7_212.5175	0		
1137- GRID 7860	13.875 -60.0	212.5175	0		-
1138- GRID 7861	13.875 -90.0	212.5175	Ó		•
1139- GRID7862	13.42897-108.61	7212.5175	Ö.	-	•
1140- GRIO 7863	13.875 -120.0	212.5175	O		
1141- GRID 7864	13.875 -150.0	212.5175	0		
1142- GRIU 7865	15.25 180.0	217.94	. 0		
1143- GRID 7866	15.25 150.0	217.94	. 0	,	
1144- GRID 7867	14.75977131.363		0		1.0
1145- GRID 7868	15.25 120.0		0		•
1146- GRID 7869	15.25 90.0	217.94	Ō		•
1147- GRID 7870	14.7597771.383	217.94	. 0		
1148- GRID 7871	15.25 60.0	217.94	o		
1149- GRID 7872	15.25 30.0	217.94	0	-	
1150- GRID 7873	15.25 0.0	217.94	0		

		Limit amount	SORTE						
	CADD		3 U W I E	D BU	LK DA	IA	ECHO		
	CARD	•	3 4	_		_	خ		
	COUNT . 1	7074			6		8.		+• 10,
	1151 - GRID	7874	15.25		217.94		0		
	1152- GRID	7875		977-48.61		•	0		
	1153- GRID	7876	15.25		217.94		0		
	1154- GRID	7877	15.25		217.94		0		
	1155- GRID	78 78	•	977-108.6	•		0		
	1156- GRID	7879	15.25				0		
	1157- GRID	7880	15.25			-	. 0		
	1158- GRID	8352 10			589 • 75	101	456	•	•
	1159- GRID	8355 10		5 13,872	58-9.75	101	456		
	1160- MATT		0567	•3	• 1	,		•	
	1161- MAT1	1000 25	.063	·49.	.0615		·	•52	
ŀ	1162- PARAM	GRDPNT 0							
	1163- PARAM	TPCOPY 1						•	
	1164- PARAM	TPNAME SR	MPIA				• • • • • • • • • • • • • • • • • • • •		
	1165- PARAM	WIMASS .0	02588						
	1166- PBAR	101 . 10	0 .80	.054			· · · ·		
	1167- PBAR	102 10	0 .948	-130	•		·		
	1168- PBAR	103 10	0 .210	.077					
	1169- PBAR	104 10		•060	، هم مسئل د مه المستعد				
	1170- PQUAD2	100 10					:		
	1171- POUADS	200 10							
	1172- POUAD2	300 10			• • • • • • • • • • • • • • • • • • • •			•	
	1173- SPC1	1 45		7291	7292	7294	7295	7296	•
	1174- SPC1	1 45			7300			7304	
	1176- SPC1	1 45		7299 7307	7308	7302	7303		
	1176- SPC1	1 45		1		7310	7311	7312	
	1177- SPC1			7315	7316	7318	7319	7320	
		145		7323	7324	7326	7327	7328	
	1178- SPC1	1 45		7331	7332	7334	7335	7336	
	1179- SPC1	1 45	-	7339	7340	7342	7343	7344	•
	1180- SPC1	1 45		7347	7348	7350	735,İ	7352	
	1181- SPC1	1 45		7355	7356	7358	7359	7360	
	1182- SPC1	1 45		7363	7364	7366	7367	7368	· · · · · · · · · · · · · · · · · · ·
	1183- SPC1	1 45		7371	7372	73.74	7375	7376	
	1184- SPC1	1 45		7379	7380	7382	7.383	7384	
	1165- SPC1	1 45		7387	7388	7390	7391	7392	
	1186- SPC1	1 45		7395	7.396	7398	7399	7400	
	1187- SPC1	1 45		7403	7404	7406	7407	:7408	
	1188- SPC1	1 45		7411	7412	7414	7415	7416	
	1189- SPC1	1 45	6 7418	7419	7420	7422	7423	7424	
	1190- SPC1	1 45	6 7426	7427	7428	7430	7431	7432	
	1191- SPC1	1 , 45	6 7434	7435	7436	7438	7439	7440	
	1192- SPC1	1 45	6 7442	7443	7444	7446	7447	7448	• •
	1193- SPC1	1 45	6 7450	7451	7452	7454	7455	7456	
	1194- SPC1	1 45		7459	7460	7462	7463	7464	
	1195- SPC1	1 45	•	7467	746H	7470	7471	7472	
	1196- 5HC1	1 46		7475	/A / to	14/11	FA F4	7480	•
	TIME SHOT	1 46		/48.5	74114	7486	74117	74110	
	1198- 5001	1 20 450		7491	7492	7444	7405		
	1199- 8001	1 45			•			7496	
	1200- 2001			7499	7500	7502	7503	7504	
	isou- sect	45	6 . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7507	7508	7510	7511	7512	

COUNT1	• •	2	3	4	5	•• 6	7	8	9	• •	1
1201- SPC1	1	4	66	7514	7515	7516	7518	7519	7520		
1202- SPC1	1	45	6.	7522	7523	7524	7526	7527	7528		
1203- SPC1		4!	56	7530	7531	7532	7534	7535	7536		
1204- SPC1	1	4	6	7538	7539	7540	7542	7543	7544		
1205- SPC1	1	4:	6	7546	7547	7548	7550	7551	7552		
1206- SPC1	1	4 9	6	7554	7555	7556	7558	7559	7560		
1207- SPC1	· 1	4	56	7562	7563	7564	7566	7567	7568		
1208- SPC1	1	45	66	7570	7571	7572	7574	7575	7576	-	
1209- SPC1		4	6	7578	7579	7580	7582	7 583	. 7584	•	
1210- SPC1	1	49	66	7586	7587	7588	7590	7591	7592	•	
1211- SPC1 -	1	49	66	7594	7595	7596	7598	7599	. 7600		
1212- SPC1	1	4 9	6	7602	7603	7604	7606	7607	7608		
1213- SPC1	1	4	56	7610	7611	7612	7614	7615	7616		
1214- SPC1	1	41	56	7618	7619	7620	7622	7623	7624		·
1215- SUPORT	7301	1 2		7313	23	8352	123	8355	123	_	

SOLID ROCKET BOOSTER FORWARD HALF NASTRAN DATA Z703213

NASTRAN EXECUTIVE CONTRUL DECK ECHO

```
ID PHASEL SAMRLE
CHKPNT YES
 TIME
             60
 APP
           DISP
 SOL
           7.0
 DIAG
       2.7.8.13.14.19.21.22
 ALTER 2:25 PARAMETER DEFAULTS
PARAM
         //C.N.NUP/Y.Y.NUSUB#0
         //C+N+NUP/V+Y+TPCOPY#-1
PARAM
 PARAM
         //C.N.NDP/V.Y.SUBGK#-I
 PARAM
         //CananuP/VayaSUBK4#-1
         //C.M.NOP/V.Y.SUBB#-1
 PARAM
 PARAM
         //C.N.NOP/V.N.TRUE#-1
ALTER 25.27
         EST.GEL.ECPT.GPCT
 CHKPNT
 PARAM
         //Cinisus/VinicuuPLE/ViYinuSUS/Cinil
PARAM
         //C.N.NUP/V.N.NUK46GK-1
PURGE
         KGGX.K4GG.GPST.UGPST/NUSIMP
 CHKPNT
         KGGX . K4GG . GPST . DGPST
         130 NOSIMP
 COND
 CUND
         L25A.GENEL
 COND
         L258 . COUPLE.
LABEL
         L25A
PURGE
         OGPST/TRUE
CHKPNT
         OGPST
LABEL
         L258
 ALTER 30-31
 CHKPNŤ
         KGGX+K4CG+GPST
LABEL
         L30
ALTER 34.35
 PARAM
        HAUS.Y.V.DDBUN.N. V.DBUN.N. V.GPA.N. SUBB
PARAM
         ZZC.N.ANDZV.H.NURK4ZV.Y.SUBGKZV.Y.SUUK4
 PARAM
         //CaraanD/valaaNUK4/vallaNUKK4/vallaNUK4GG
 COND
         L34A . NUMGG
JUMP
         H-19H
         L34A
LABEL
COND
         ERRORS, COUPLE
LABEL
         LJ4H
         BNN. HEF. HAA LAGGYZNUBG ...
PUNGE
PURGL
         KAGGY . KANN . KAFF . KAAAZINIKA
CHKPNI
              UGGY-KAGGY-KANN-KAFF-KAAA-MGG-866-860-8F -BAA
 ALTER 37.37
         LBL1 . NUMGG
COND
ALTER 42,42 $ 1F COUPLING RUN, CUMBINES SUBSTRUCTURES.
         CPGT+KT+MT+KGGT+MGGT+KGGS+KGGS+KGT+MGT/CURPLE
PURGE
PURGE
         KAUCS-KAUCI-KAUT-UIKI-KAII-KAIZEOUPLL
PURGE
         BLONGGO ONG COLOT OF ACAR ACADE ACACOUPLE
COND
         LPC9.CHUPLE
                      $ SKIP-NUT A COUPLING RUN
         /..../C.N.-3/C.N.9/V.Y.TPNAMEY & LIST TAPL & REWIND
```

```
//C.N.NUP/V.N.PASSWI & INITIAL LUUP PASS PARAMITER
PARAM
PURGE
        K4GGS-K4UGI-K4GI-GIKI-K411-K41-GHAC-KFAC/HUKK4
        GIRIOGE ACZSUNGRZKALOKE ACZSUNKAZNOGSONGGLONGLONE ACZSUNG
PURGL
HMUL
        LOOPC
        LODEC & 10P of LOUP
LAHFI
        //C+N+5UH/V+N+PA551/V+N+PA55/C+N+2
PARAM
INPUTTI /CPG1.K1.M1../C.II.O/C.H.9 $
        PC1.PASS1
LUND
JUMP
        LPCS
        LPCI
1 AFILL
MERUL
        a a KI a CHUL a / KUUS/LaNa - I / Laka 2/Laka 6
        ...MI.CPGI./MGG5/C.N.-1/C.N.2/C.N.6
MERGE .
        LPC2.NURK4
COND
MERGE.
        ...CPG1.ZK4LG5/C.N.-1/C.N.2/C.N.6
        1 002
LAHEL
CUND
        LPC3.SUBH
        - - - CPGI -/UGS /Lana-1/Calla2/Callac
MERGE .
LABEL
        LPC3
CUND
        LPC4 .PASSI
        eeeKIeCPGIe/KGGI/LeNe=1/CeNe2/CeNe6
MERGE.
MERGE .
        ...MI.CPGI./MGGI/C.N.-1/C.N.2/C.N.6
        KGGS . KGG1/KG1 No
ADD
EQULY
        K61.K665/1RUL
        MGGS.MGGI/MGT S
ADD .
        MGT.MGGS/TRUE
EQUIV
LABEL
        LPC4
COND
        LPC7.NURK4
CUND
        LPC5.SUHGK
           GEAC//CanaDMI/Canal/ValtaPASS/YanaGII
PAKAML
        //C.N.EU/C.N.O.O/C.M.O.O/V.N.GIR/V.N.GUTC/V.N.INC1/V.N.INC2/
PARAHR
        VANAMOGI &
        GIKIZNUGI ......
PURGE
COND
        LPC5.NUGI
PARAME
        //C.N.COMPLEX/C.H.U.G/V.N.GIR/C.N.O.G/V.R.GI &
_QQQ_
        Ki.ZGIKIZValiaGI 3
        1 PCS
LARLI
CIMD
       LPC6.SUBK4
PARAML
          KEAL//Cinidmi/Cinil/ViniPASS/ViniKatt 5
        //C.N.EU/C.N.O.U/C.N.O.U/Y.it.K4R/Y.N.OUIC/Y.N.INCI/Y.N.INC2/
PARAME
        V.N.NUK41 5
PURGE
        K41/NUA41
CUND
        LPC6.NUK41
INPUTTI /K41.../C.N.D/C+H+Y $
        LPCO
LABEL
ADD
        G1K1 . K41/K411
        ***K411*CPG1*/K4661/C+i++1/C+h+2/C+h+6
MERGL
        K4665 . K4661/K461
ADD
EQUIV
        K4GT.K4GGS/TRUE
LABEL
        LPC7
        LPC8.SU38
COND
```

```
PARAML "
         BFAC//C.N.DMI/C.N.I/V.N.PASS/V.N.BIP 4
PARAME //Canaeq/Canaoaq/Canaoaq/Yanaolik/Vahaoutc/Vanainci/Vanaince/
       V.N.HUBI S
       LPC8 NUB I
COND
INPULL /blees/ConeO/ConeS &
       ...B1.CPG1./HGG1/C.N.-1/C.N.2/C.N.6
MERGE.
      BGGS.BGG1/BGT $
ADD"
EQUI V
      HGT.BGGS/TRUE
       LPC8
LABEL
PARAM
       //C+N+AUD/V+N+PASS/V+N+PASS/C+N+1
PARAM
       //C.N.SUH/V.N.SKIPZ/V.Y.NUSUH/V.X.PASS
       LPC9,5KIP2
CUND
HEPT
       LODPC .20
LABEL
       LPC9
CHKPNT KGGS+MGGS+K4GGS+5GGS
       KGGX+KGG5/KGGY 4
ACD
CHKPNT
      KGGY
       MGG+MGG5/MGGY 1
ADD
      MGGY
LPC 1.1. NUK4
CHKPNT
COND
       K466.K4665/K466Y
ADD -
CHKPNT
      KAGUY
      LPC11
LABEL
                  CUND
       LPC12 . NUBG -
ADD
       BGG.BGGS/BGGY
CHKPN1 BGGY
       LPC12
LABEL
LOUIV
      KGGY KGG/AUGELIL S
ALTER 45.45
     GET .KGGY/KGG/V.N.LUSET/V.N.NDGENL/V.N.MGSIM#T &
SMAR
ALTER 51.53
PURGE GM/MPCF1/GU/UM1T/KFS/51NGLE
       KGG.KHN/MPLF1/MGGY.MNN/MPLF1/BGGY.HLI/HFCF1/K4GGY.K4HN/MPCF1
FOUTV
CHKPNT GM.RG.GU.KFS, USET .KNN.MNM.BNN.KAND
COND
      LS3A NUMCG
ADD
       MGG./WGG/C.Y.ALPHA#E385.4.0.04 $
      GPL . USE I . SI L . WGG//C . N. G
MATGPR
LABEL
      L53A
       L53B,COUPLE .
COND
JUMP
       LBL4
LABEL
      L538
ALTER 63.63
MCE2
       USET.GM.KGG.MGGY.BGGY.K4GGY/KNN.MNN.BNN.K4NN
ALTER 74,74
COND L87.0MIT
ALTER 77,17
ALTER BO.61
COND
       LBLB . NÚSG
ALTER 85.65
COND L 87.NOK4
```

```
ALTLE 87
LABEL LOT
      CPARE, CPFOA, CPMSF, CPGMR, CROCK DE, LOADE, GOOF OF ALORDE UM, EGGZREACT
PURGE
      EX.EXT.FUMT.EUNT.FUGT.EGGTC.MUGG.MUCLY/REACT
PURGE
PURGE KLL-KLR-KRR-LLL-ULL-UM-X-EUK-L-DM1-GOT-GM1ZHLACI
        LCPS REACT & R-SET MUST DE DEFENED TO GENERALE FOC
CUNO
        USET.KAA.ZKLL.KLR.KRR... . .
RBMG2 KLL/LLL.VLL
       ELL.QLL.KLR.KRRZDM
KLL.KLR.KRR.DM
PBMG3
CHKPNI
IKNSP
       EUR/EURT_
       GPL-USET-SIL-EURTY/C.N.R
KLR-DM-KRR/XYC.N.I >
GPL-USET-SIL-X//C.N.M
MATGPH
MPYAD
MATGPH
        EQH.X./EX/C.N.O/C.N.1/C.1/C.
MPYAD
                           K.
        FX/IXT
 THNSP
MATGER GELOUSET, SILOEXI//CONOR
        CPFUSE 1.31FFFV1CCF1112
PURGE
PURGE .
       EGOZOMÍ TZEGMZMPCFÍ
       GGTZONITZGHT.EGHTZMPCFI
PURGE
VEC
        USET/CPARL/C+N+A/C+N+K/C+H+L # 1
 IRNSP
        DMZUMT
MPYAD
       EGRaDMIa/EGL/CakaC/Cakal/CakaU
        EGR., EGL., CPARL, /EGA/C.N.1/C.N.2/C.N.2
MERGE
        EUA.EQF/UM11
       EUA.EOF/UM11
LCP1.UMLT
FOULV
COND
        USET/CPTUA/CONOF/CONOU/CONOA 4
VEC
TRNSP
        GUZGUT
        LGA.GOT./LGU/C.N.G/C.h.1/C.N.C.
MEYAL
       EQU. . EQA. . CPF UA . / EQF / C . N. 1/C . N. 2/C . N. 2
MERGE
LABEL
        LCP1
       EUE+LUN/51/iGLE
_EQUIY___
        LCP2.SINGUE
CUND
        USET/CPNSF/C+N+N/C+N+S/C+N+F &
VE.C
MERGE - . . . LUF . . LPHSE . / LUN/L . B. . I / C. L. 2/L. N . 2
LABEL
        LCP2
        EGN/EGNT
 TRNSP
MATGPR GPL-USET-SIL-EQUIZZE-H-H
        EUN-EUGZAPCF1
LUUIV
        LCP3.MPCF1
COND
       VLC .
 TRNSP
        GM/GMT
        EQN+GMT+/EUM/C+N+U/C+N+1/C+N+U
MPYAD
MERGE
        EUM .. EUN .. CPGMN ./ EUG/Con . 1/Con . 2/Con . 2
TRNSP
        EUMZEUMT
       GPL+USE1+STL+EGMT//C+N+M
MATGPR
LABLL
        LLPJ
       CPFDA.CPWSF.CPGMN.CPARL
CHKPNT
CHKPNT
       EOG
IRNSP. EGG/EGGT ....
```

NASTRANDEEN ECALTIBE CONTROL DECK ECHU

ADD	EGGT.ZEGGTC/C.Y.ALF	HA#X386.4.0.01	1 &			
	ME CUNVERSION OF MA	•	3.6 • 4			
PURGE	MUGG/NGMGG/MUGGY/C	OUPLE				
COND	LCP4 NOMGG	*******				
SMPYAD LABEL	EGG • MGG • EGG 1 C • • • • • • • • • • • • • • • • • •	/MUU6/LaNa3/L	No I/Carao	. %	*	
COND	LCP5.COUPLE					
SMPYAD	EOG.MGGY.EOGTC/	MOUGY /C . N. 3/C	N-1/C-N-0	•		
	LCP5		LINEAP WHILE.			
MATPRN	MUGG.MUGGY// \$					
CUND	LCP8. TPCUPY			حدددها والجارب		
SEEMAT	KAA//C.N.PRINT					
SEEMAT	MAA//C.N.PRINT					
	GMaGDaKFSaKAAa//Ca	Ha-1/Calladeva	LIPNAME		بسلطيك كالمست	
OUTPUT						
CUND	LCP7.NUK4			٠.	· .	•
	K4AA//C.N.FRINI		بيريديا فيعلص ومهد المستعدد بعادت	سسترعوا بداء		
	K4AA// \$					
LABEL	LCP8 NUBG					. *
SELMAT					Cara Cara Cara Cara Cara Cara Cara Cara	
DUTPUTI				·		
LABEL		<u> </u>				
ALTER 8 ALTER 1 EMDALTE	64.167					
CEND						
· .			$(x,y) = (x,y) \in \mathbb{R}^n$			
						• •
•		* :			•	
						
			2.1	•		
						: · · · · · · · · · · · · · · · · · · ·
			: · · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	

	CARD	CASE CONTROL DECK ICH	U
	COUNT	TITLE * PHASE 1 XPART 1 TO SUBTITLE # SRM L PROPELLANT FAL HALF	
	3	MAXLINES # 60000	
	5	SPC A 1	
		BEGIN BULK	٠
*** USER INFORM	IATIUN ML	ESSAGE 2076 MULK DATA BUT SUSTED ASSURT ATEL RE-DRUEN DECK.	•
	• .		
and an annual contract of the second of the			
	· · · · · · · · · · · · · · · · · · ·		٠.
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	-		
anaphrica es esistencias representencias e sense ú	remains and a	The second of th	•
	· · · · · · · · · · · · · · · · · · ·		:.
	• :		
			
	<u> </u>		

CAND			U # 1 t	о и о	L K U	A F A L	C 1, 11		
	••	•• 3	4	•• 5	•• 6	/			10
1-ASET	6907	23					• •		••••
2- ASETI	123	6901	0904	691.0					
3- ASE [1	123	7001	7004	7013	7016	1025.	7.020	7937	
4- ASE []	123	7040	7097	7100	7109	7112	7121	7124	
5- ASE 11	123	7133	1136	7194	7196	7205	72.08	72.1.7.	
6-ASET1	123	7220	7229	7232					
7- ASE 11	123	7290	THKU	7292		•			•
8- ASF [1	123	7294	THRU	7296		<u> </u>			·
9- ASE11	123	7298	THRU	7300					
10-ASE11	125	7302	THRU	7304		•			
11-ASET1	123	7306	THRU	7308			· ·		
12- ASETI	123	7310	THRU	7312					
13-ASET1	123	7314	THRU	7316					
14- ASET1	123	7318	IHRU	7320					
15-ASET1	123	7322	THRU	7.3.24					
16-ASET1	125	7326	THKU	7328					
17-ASET1	123	7330	THRU			:			
18- ASE (1	123	7334	THRU	7336		•	•		
19-ASETI	123	8134				•			
20- ASE 11	123456		7293	7297	.7.30.1	7305 .	7309	7313 .	
21- ASE 11	173456		7321	7.525	1324	1333			
22- LIIAH	4201	106	6937	69313	1.0	• 0	• 4		EC3201
23- EU0201			-0.96			-0.96			
· 24- CHAR	4202	106	6938	6939	1.0	•0	• 0	1 1	EC 12 02
25-6CH202			-0.96			-0.96		-	
26- CHAR		106	6939	6940	1.0	0			_ ECH203
27-603203			-0.96			-0.96			
23- CUAIC	4204	166	6940	6941	1.0	•0	• 0	1	しいだじ 4
29- ECH204			-0.36			-0.96			
30- CBA!	4205	106	6941	6942	1.0	•0	• 0	. 1	&C4205
31-108205			-0.96			-0.96			
32- CBAR	4206	106	6912	6943	1.0	•0	O	1	& C 200
33-608200			-0.96			-0.96			
4 34- CHAH	9207	106	6943	6944	0.1	.0	• 0_1		LC3207
35- ECB207			-0.96			= C. Se	.•		
36- CBAR	4208	106	6944	6945	1.0	•0	• 0	3	£C11208
37-609206	•		-0.96			-0.96			
38-CBAR	4209	106	5945	6946	1.0	.0	•.ti		&CU209
39- ¢C8209			-0.96			-0.46			
40 - CIIAN	4210	106	01440	6947	1.0	• 0	• 0		5C3210
41=608219			-0.96			-0.4c	•		
42- CBA.	4<11	106	6947	6448	F. U	•0		i	&CE211
43-608211		•	-0.96			~0.4h	. • .,	•	
49-CJAH	.4212	. 106	and the second second	_693.7	1.0	.0	.0	4 .	8C9212 .
45-6612.12			-0.96			-(1.46)	• • • • • • • • • • • • • • • • • • • •	-	<i></i>
46- CHA.	4213	107	6901	6902	1.0	•0	•(1	1	6C9813
			-0.96		•••	-0.96	•	•	
4/-663613									
48- C3AR	4214	107			1.0		-0	1	i.(:214
48- C3AR 49- 8CB214	4214	107	6902 -0•96	6903	1.0	-0.96	•()	1	66-214

SORTED BULK DATA ECHO

CARD										
COUNT	. 1	2	••	3 4	•• 5	••	b 7		8 9	10 .
51-	£C8215			-0.96			-0.96			
	CBAP	4216	1.07	6904	6905	1	•0 .		1	. EC0216
53-	PC8519		•	-0.46		*	-0.96	•		
54~	CHAR	4217	107	6905	6906	1.0	• 0	• 0	· 1	6CB217
55-	ECH217			-0.96			-0.96	·		
56-	CBAR 1	4218	107	6906	6907	1.0	•0	• 0	1	EC9218
	603218			-0.96			-0.96	, ,		
	CJAR	4219	107	6907	6908	i_o	0		1_ <u>·</u>	6C9219: :
	608219			-0.96			-0.46)		
60-	CBAR	4220	107	6908	6909	1.0	• 0	• 0	. 1	ECH220
61 %	ECH220			-0.96			-0.96			
62-	CHAH	4221	107	6909	6910	1.0	•0	.0	1	£C9221
63~	£CB221			-0.96			1-0-96			
	CHAR	9222	1.07	6910	6911	1.0	0		1	£C3222
しら~	£C8222			-0.96	•		-0.96			
66-	CHAR	4223	107	6911	6912	1 a O	• • 6	• 0	1	6C3223
67∻	609223			-0.96			-0.96	.	4	
68-	CHAR	4224	107	6912	6901	1.0	•0		1	CCB224
	6CB224			-0.90			-0.96		•	-
70-	CHAR	4225	108	7001	7.005	10	• 0 , .		·1	604225
	600225	. :		0.41			0.41			•
72-	CBAR	4220	108	7005	7005	1.0	•0	• 0	1	£00226 ·
73-	6C3226			0.41			0.41			
	CBAR	4227	108	7009	7013	1.0	•0	• 0	1 1	€ C5227
75~	6C8227			0.41			0.41	٠		
76-	CBAR	4228	108	7013	7017	1.0		0	1	£CB228
77~	€CB228	•		0.41			0.41			
78-	CHAH	4229	108	7017	7021	1.0	• 0	• 0	1	ECB229
79-	ecozza			0.41			0.41			,
	CHAR	4230	108	7021	7025	. 1.0	•0	- O	1	€CB230
81-	6LH230			0.41	# :		0.41			
82-	CBAR	4231	108	7025	7029	1.0		. 0		€CB231
~68	668231	,		0.41			0 4 1			
84-	CHAR	4232	108	7029	7033	1.0	• 0	• 6	3	CC9232
ნა∹.	6CH232	•		0.41			0.41			
	CBAR	4233	108	7033	7037	1.0	•0	• • 0	1	ECH233
87-	ECH233		٠.	0.41			0.41		•	
88	CHAR	4234	108	7037	7041	1.0	0	0	1	6CH234
	GC6234			0.41			. 0.41			
40-	CUAH	4235	108	7041	7045	.1.0	. •U		-1	6CH235
91-	CCB235			0.41			0.41			
92-	CBAR	4236	108	7045	7001	1.0	• 0	• 0	1	6CB236
	&CB236		* *	-1.07	5		-1.07	5		•*
	CBAR	4237	109	6907	6919	1.0	• 0	ب •	1	664237
	665231			-1.07			-1.07			
	CHAP	42.311	109	6919	6931	. 1.0	0	• 0	1 .	EC3236
	وزوج واسامة			-1.07			-1.57	5		
	CHAR	4239	109		6943	1.0	•0	•0	1	£C9234
	608239				1 1 1					
100-	CHE XA1	1001:	1000	7002	7050	7054	7006	700	7049	EHX1001

(A)	SORTE	D 3 U	E K D	ATA	E C H 9		
CARU	3 4						1/
-• 2 •• 1 • TRUUD] 	7005	•• 5	•• 6	••.	•• 3	•• 9	10 .
102-CHEXAL 1002 10	7003	7051	705	7007	7002	7056	6HX1002
103-EHX1002 7054	7006	•					:
164- CHEXA1 1603 10	00 7004	7052	7056	7008	7003	7051	EHX1063
105-6HX1003 7055	7007						
106-CHEXAL 1004 100	7006	7054	7058	7010	7000	7053	LHX1004
107- CHX 1004 7057	7009				•		
108- CHEXA1 1005 10	00 7007		7.059	7011	700t	7054.	EHX1005
109-EHX1005 7058	7010						
110-CHEXA1 1006 10	00 7008	7056	7060	1012	7007	7055	999TXH3
111-EHX1006 7059	7011						
112- CHEXA1 1007 10	00 7010	7058	7062	7014	7009	7057	CHX1007
113-6HX1007 7061	7013				· . · · .	•	1. A.
114-CHEXAL 1008 10	the second secon	7059	7063	7015	7010	7058	
115-EHX1908 . 7062	7014						
116-CHEAA1 1009- 10	00 7012	7060	7064	.7016	7011	7059	FUX1008
117-6HX1009 7063	7015				· .		
118-CHEXAL 1010 10	00 7.014	7062	7066	7018	7013	7061	CHX1010
119-EHX1010 7065	7017		-	. : .			·.
120-CHEXAL 1011 10	00 7015	7063	7067	7019	7014	7062	LIX1011
121- EHX1011 7066	7018		•				
122- CHEXA1 1032 10	00 7016	7064	7068	7020	7015	7063	PHXIQIS
123-66X1012 7067	7019						
124- GIEXAL 1013 10	00 7018	7066	7070	7022	7017	7065	6HX1013
125-EHX1013 7069	7021						
126-CHEXAL 1014 10	00 7019	7067	7071	7023	7018	7.066	6HX101A_ *
127- EHX1014 7070	7022					•	
128- CHEXA1 1015 10	00 7020	7068 .	7072	7024	701"	7067	LHX1015
129-EHX1015 7071	7023	<u> </u>					
130- CHEXA1 1016 10	00 7022	7070	7074	7026	7021	7059	64X1016
131-LHX1916 7073.	7025	,				- '	•
132- CHEXAL 1017 10	702.1	7071	7075		7.022.	70.70	EHX1017 //
133-6HX1017 7074	7026	*.		•		-	
134-CHEXAL 1016, 10	00 7024	7072	7076	7028	7023	7071	LHX1012
135-4HX10167075	7027		···	·			
136-CHEXAL 1019 10	00 7026	7074	7078	7030	7025	1073	CHX 1019
137-CHX1019 7077	7029	•				•	
138-CHEXAL 1020 10	00 7027	7075	7079	7031	7026	7074	EHX1020
139-CHX1020 707E	70.50			•		. •	
140-CHEXA1 1021 100	00 7028	7076	7080	7032	1027	7075 ,	EHX1021
_141-£HX10217079	70.11						
142-CHEXA1 1022 10		, 707 8	7082	7034	7029	7077	PH41055
143-EHX1022 7081	7033	•					
	007031	7.07.9		2035	7030	7078	LHX1023
145-6HX102J 7082	7034	•					•
146- CHEXAI 1024 10		7080	7084	7036	7031	7079	6HX1024
147-EHX1024 7083	1035						
	00 /034	7082	7086	7038	7033	7081	EHX1025
149-6HX1025 7065	7037		44				
1150-CHLXAL 11026 1 10	00 7035	7053	ZQ87	7039	7034	7082	/ LHX1026_

	SORTE	U & U	ŁK D	A 1 A	E C H O		
CAiW							
COUNT . 1 2	3 4	•• 5	•• 6	7	•• 8	• • 9	10 -
151- 6HX1026 708		3004	2000	~			
152- CHEXAL 1027 153- CHX1027 708	1000 7036 7 7039	7084	7.0.88	, 70,4.0.		/283	E.HX1027.
		7086	20.10	20.6	2002	2000	£ 119 • 8 0 11
154- CHEXAL 1028	1000 7038	7000	7090	7042	7027	7085	EHX1028
155-15HX1028 708	1000 7039	7087	7091	7043	7038	7086	C 1: V 1 (1) (1)
157- LHX1029 709		.007	1001	7043	1020	7000	6HX1029
158- CHEXAL 1030	1000 7040	7.088	7092	7044	7.039	7047	LHX1030_
159- 6HX1030 709							
160- CHEXAI 1031	1000 7042	7090	7094	7046	7041	70 H9	6HX1031
161- LHX1631 709							
162- CHEXA1 1032	1000 7043	7091	7095	7047	7042	7090	6HX1032
165- &HX1032 709	*			•			
164- CHEXAL 1033	1000 7044	7092	7096	7048	7043_	_7091_	_ EHX 1033_
165 GHX1033 709	5 7047						
166- CHEXAL 1034	1000 7046	7094	7050	7002	7045	7093	6HY1034
107 - EHX1034 704	7001	····					
168- CHEXA1 1035	1000 7047	7095	7051	7003	7046	7094	EHX1035
169- EHX1035 705	50 7002			•			•
170- CHEXAL 1036	1000 7048	7096	7052	7004	7047	7095	6HX1036
171-6HX1036 705							•
172- CHEXAL 1057	1000 7050	7098	7102	7054	7044	7097	5-01×H3
173- LHX1037 . 710	11 7053						
174- CHEXA1 1036	1000 7051	7099	7103	7055	7 050	7098	6HX1038
175- EHX1038 710	2 7054						
176-CHEXAL 1039	1000 7052	7100	7104	7056	7.051	7099	EHX1039
177- 6HX1039 710							•
178- CHE XA1 1040	1000 7054	7102	/106	7058	7053	7101	6HX1040
17y-LHX1040 710							
180- CHEXA1 1641	1000 7055	7103	7107	7059	7054	11.05	LHX1041
181 - EHX1041 710							
182- CHEXAL 1042	1000 7056	7104	7105	7060	7055	71 63 .	_ EHX1042
183- EHX1042 710		7.0.4		20. 3	****	****	
184+ CHEXAI 1043	1000 7058	7106	7110	7062	7057	7105	EHX1043
185- LHX1045 710	1000 7059	7107	/111	70 t 3	7058	7106	
187- SHX1044 711		,10,	7111	7063	7036	7106	EHX 1044
188- CHEXAL 1045	1000 7060	7108	7112	7064	ŻOSO	7107	'&HX1045
189-6HX1045 711				(yyı			GHX I U4 S
190- CHEXAL 1046	1000 7562	7110	7114	7066	7061	/109	8HX1046
191-6481046 /11		, , ,		7000		••0 7	C117 1040
192- CHEXAL 1047	1000 7063	7111	7115	7007	7062	7110	bHX1047
193- 6HX1047 711			,-	,			01112041
	1000 7064	7112	7116	7068	7003	7111	EHX1048
195- EHXIU46 711		***************************************		-		· <u>-</u>	
190- CHEXAL 1049	1000 7066	7114	7115	7070	1005	7113	64X1049
197- CHX1049 711		· -					
198- CHEXA1 1050	1000 7067	7115	7119	7071	7066	7114	EHX1050
199+ 6HX1050 711	8 7070	•				•	
200- CHEXA1 1051	1000 7068	7116	7120	7072	7067	7115	_ 6HX1051

	5 0 R 1 E	o a o	LK D	A 1 A	E C H U		
COUNT 1 2	3 4		·				**
201-6HX1051 7119	7071	•• 5	•• 0	/	•• 8	•• 9	10 .
		7110	** 20	70.74	***		EMME OF O
202- CHEXAL 1052 100 205- CHX1052 /121	0 7070 7073	7118					
		7119	7123	70.75	7070	3	
		7119	/123	7075	7070	7118	LHX 1053
205-LHX1453 /122	7074	7120		707.	303.		
206- CHEXA1 1054 100		7120	/124	7076	7071	7119	8HX1054
207- GHX1054 7123	7075			***			
208- CHEXA1 1055 100		7122	7126	_70.78	7.073	7.121	£HX1055
209- 6HX1055 /125	7077					·	
210- CHEXA1 1056 100		4183	7127	10.13	7074	7122	EHX 1056
211-6HX1056 /126	7078						
212- CHEXA1 1057 . 100		7124	7128	7080	7075	.7123	LHX1057
213-EHX1057 7127	7079						•
214-CHEXA1 1058 100		7126	7130	7082	7.07.7	7125	6HX1058
215-EHX1056 7129	7081						*
216-CHEXAL 1059 100		7127	7131	7083	7078	7126	6нх1059
217-6HX1059 7130	7092						
218- CHEXA1 1060 100		7128	7132	7084	7079	7127	0901XH3
219-6HX1060 V131	7083			ė.			•
220- CHEXA1 1001 100		7130	71.34	7086	7081	7129	
221- EHX 1061 7133	70 85		•	:			
222- CHEXA1 1062 1100		7131	7135	70 ti 7	7082	. 7130	6HX1062
223- CHX1062 7134	7086					<u>:</u>	
224-CHEXA1 1063 100		71.32	7136	7088	7083	7131	EHX1063
225-EHX1063 7135	7087						
226-CHEXAL 1064 100		7134	7136	70.90	7085	71,33	6HX106.4
227- LHX1064 7137	7089						
288- CHEXAL 1065 100	0 /087	7135	71.39	7093	7086	71.34	6HX1065
229-EHX1065 7138	7090	· · · · · · · · · · · · · · · · · · ·			المستخرية		ا فید المستخداد الرواد مس
230- CHEXAL 1066 100	0 7088	7136	7140	7092	7087	7135	6HX1066
231-LHX1066 7139	7091			• •			
232-CHEKA1 1067 100	0 7090	7138	7142	7094	VOUY.		_6HX1067.
233-EHX1067 7141	7093					•	
234- CHEXAL 1068 100	0 7091	- 7139	7143	7095	7.090	71.38	8401XH3
235- LHX1068 7142	7094						
236~ CHEXAT 1069 · 100	0 7092	7140	7144	7096	7091	7134	LHX1069
237-6HX1069 7143	7095						
238-CHEXA1 1070 100	0 7094	7142	7098	7050	7093	/141	_6HX1070
239- CHX10/0 7097 .	7049						
240-CHEXAL 1071 100	0 7095	7143	7099	7051	7094	7142	SHX1071
241-6HX1071 7098	7050						
242- CHEXAI 1072 100	0 7096	7144	7100	7052	7095	7143	CHX1072
243-6HX1072 7099	7051	•.	•			. •	
244-CHEXAL 1073 100	0 7098	7146	7150	7102	7097	7145	EHX1073_
245-6HX1073 7149	7101						
246-CHEXAL 1074 100	0 7099	7147	7151	7103	7098	7146	LHX1074
247-6HK1U74 7150	7102			·			
248-CHEXA1 1075 / 100		7148	7152	7104	7044	/147	EHX1075
249- CHX1075 7151	7103				. :		
	0 7102	7150	Z154	. 7100 .:	7101	7149	6HX1076
			 "				

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COUNT . 1	2	3 4	•• 5		7		- · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
251-6HX1076		7105	••	••	•• •	•• ''	••. 4	•• 10 •
252- CHEXAL	1077 100		7151	7155	7107	7102	2160	_LHX1077_
253- CHX101		7106						CHALV (.L.
254- CHEXAL	1078 100		7152	7156	7108	7103	7151	6HX1078
255 - 6HXLVY	· ·	7107	7 7 .32	11.30	7100	1105	7131	CHXIUIO
256- CHEXA1	1079 100		7154	7158	7110	7105	7153	EHX1079
257- CHX107		7109	, 7134	7.50	7.1.0		11.73	CHXIO19
258- LHEXAL			7155	7159	7111	7106	7154	
259- LHX108		7110			··· ·············			CHX1080_
260- LHEXA1	1081 100		7156	7160	7112	7167	7155	EHX10#1
261- LHX108		7111		7100	1112	,,,,,	7733	GHATOM
262- CHEXA1	1052 100		7158	7162	/114	7109.	7157	CHX1082
263- 6HX108	4	7113	7136	7102	/114	7109.	1131	GUY TOOK
264- CHEXAL			7159	7163	7116	7110	7158	6HX1083
265-6HX108		/114						OF CALUES
266- CHEXAL	1064 100		7160	7164	7116	7111	7154	6HX1084
267- EHX108		7115	7100	7104	7110	• • • • •	7134	CHAINGS
268- LHEXAL	1085 100		7162	7166	7118	7113	7161	6HX1085
269-EHX108		7117		1.00	71.0	,,		GHAIGOS
270- CHEXAL			7163	7167	7119	7114	7162	_6HX1086_
271-EHX108		7118						CUVINGO
272-CHEXAL	1987 100		7164	7168	7120	7115	7163	
273-LHX108		7119	7104	7100	7120	7113	7163	LHX1087
274- CHEXA1	1068 100		7166	7170	7122	7117	7165	6HX1088
275-CHX108		7121	7100	7170	. / 1 2 2	,	7105	CHAIUGO
276~ CHEXAL	•		7167	71.71	7123	7118	7166	EHX 1089_
277- LHX108		7122						_ 200 INGS_
278- CHEXAL	1090 100		7168	/172	71.24	7119	7167	6HX1090
279- LHX109		7123	, 100	****	7174		1101	6HX1040
280- CHEXAL	1091 100		7170	7174	7126	7121	7169.	EHX1091
281-EHX109		7125	7170	717.	7120	,	7109	CHAIUGI
282-CHEXA1		0 7123	7171	7175	7107	7122	7170	
283-CHX104		7126			7127	1166	/1/0	PHX1045
284- CHEXAL	1093 100		/1/2	7176	** ***	216.	-2.	
			. /1/2	7176	7128	7123	7171	5HX1093
265- GHX109. 286- CHFXAI	1094 100	7127	/17.4	72 9 2	7130	7125		
267- LHX109		. /129	717.4	7178	11.30	/123	7173	EHX1054
	•		. 7176	~	71.45	7.00		
	_ 1.095.:1 Q0	9	7175	7179	71.31	7120	71.74.	8HX3095
* 264-6HX1095 290-CHEXA1			** **	****	4 8 - 44	2444		
290- CHE XAT			/1/6	7180	- /132	7127	717:	54X1046
292- CHEXA1	5 7) 79 1097 100	7131	71)	7.1. (2)		710		درد د کا ده مدها درد د ماه مدها
			7178	7162	7124	7129	7177	ьн х1 097
293-6HX1091		7133	717.	man a compa	2.	3133	3130	
294- CHEXA1				<u></u>	71.55	7130	. 7179 .	ั เพมไก่ลัส ั
895- CHX1098	,	7134	~	****	** *	~		
296- CHEXAL	1099 100		7160.	7184	7136	7131	7175	CHX1099
297- 61X1095								
298-CHEXAL	1100 100		7182	71 Bb	71.38	7133	7181	911X1100
299-6HX1100		7137	- ia			3		
JUU-CHE XAI	<u>11.01</u> 100	0 M75	7183	7157	71.59	7134	711-2	Political (1)

	0 16 7 L	D B U	LK D	AIA	E C H H		•
CARD							
COUNT . 1 2 3 301-6HX1101 7186 7	•• 4 138	•• 5	•• 6	7	•• 6	•• 9	10 .
302-CHEXAL 1102 1000	71.36	7184	7188	Z1.40	7135	7193.	ЬНX11.32
303-6HX1102 7187 7	139				•		
304-CHEXAL 1103 1000	7138	7186	7190	7142	7137	7185	SHX1103
305- EHXIIU3 7189 7	141						
306-CHEXA1 1104 1000	7139	7187	7191	7143	7.1.38	7186	EHX1104
	142						•
308- CHEXAL 1105 1000	7140	7.188	7192	7144	7139	7.1 & 7	LHX1.1.0.5
	143						
310- CHEXAL 1100 1000	7142	7190	7146	7098	7141	7189	·EHX 1106
	047	7.4.4	7147	7000		7	
	7143 098	7141	7147	7099	7142	7190	LHX1107
	7144	73440	7140	7100	714	7.0.1	
•		7192	7148		7.14.3	_/131_	LHX1108
316- CHEXAL 1109 1000	7146	7194	7196	7150	7146	/143	6HX1109
	149	1194	7.4.90	7130	714.	71"3	CUVIION
318- CHEXA1 1110 1000	7147	7195	7199	7151	7146	7194	CHX1110
	150		• • • •	••••			
320- CHEXAL 1111 1000	7148	7196	7200	7152	7147	7195_	6HX1111
	151						U/.1/3. 4. 4. 4. 4
322-CHEXAI 1112 1000	7150	7198	1202	7154	7149	7157	6HX1112
	163						
324- CHEXAL 1113 1000	7151	7199	7203	7155	7150	7198	6нх1113
325- CHX1113 7202 7	154			·-			· +,
326- CHEXAL 1114 1000	71.52	7200	7204	7156	7.151	7199	EHX1114
327- LHX1114 7203 73	155					·	
328- CHEXAL 1115 1000	7154	7202	7206	7155	7153	7201	⊌НХ111 5
329-LHX1115 7205 7	157						
330- CHE XAL 1116 1000	71 55	7203	7207	7159	711.4	7505	8HX1116
	158 -			•	•		
332- CHEXAL 1117 1000		7.20.4	7208	716.0	7155	7203	LHX1117
, ,	150		•				
334- CHEXAL 1118 1000	7148	1200	1210	7162	7157	1200	24X1118
	<u> </u>						
336-CHEXAI 1119 1000	7159	7207	7211	1163	7158	7206	611X1113
	165						
338- CHEXAL 1120 1000	7160	7208	7212	71.64	Z.159.	7207	6HX1120
	163	70.0	7011		~	****	
340-CHEXAL 1121 1000 341-CHX1121 7213 71	7162 165	7210	7214	7166	7161	7209	EHX 1121
342-CHEXAI 1122 1000	7163	7211	7215	2147	3167	7310	
	1103	7211	1215.	7167	7162	7210	6нх1122
344- CHEXAL 1123 1000	7164	7212	7216	7168	7164	7211	(UV1442)
	167	I. C.L.					EHX1123
346-CHEXAL 1124 1000	7106	7214	7218	7170	7165	7213	6HX1124 .
	169						UNIA JET .
348-CHEXA1 1125 1000	7167	7215	7219	7171	7166	7214	CHX1125
	70	_	. –		,		
350- CHEXAL 1126 1000	7168	7216	7220	71.72	7167	7215_	6HX1126

0.00	SORTE	D B U	£ K D	ATA	L C H	t.	
COUNT . 1 2	3 4	•• 5	6	7			• 10
351-GHX1126 7219	7171	•• 5	•• 0	••	• • 6	•• 9	•• 10 •
351-CHX1126 7219 352-CHEXAL 1127 100	•	7218	7222	7174	7944	7717	C11V3303
353-LHX1127 7221	7173			<i>L</i> L/4			6HX1127
		7219	***		21.70		
354-CHEXA1 1123 100		1219	7223	7175	7170	7216	9HX1158
	/174	3000	7004				
356-CHEXAI 1129 100		7220	7224	71 76	7171	7219	6HX1129
357-6HX1129 7223	7175						
358-CHEXA1 1130 100			7226	7.1.76	7.1.7.3	1.7221	EHX113Q
359-6HX1130 7225	7177						
360-CHEXA1 1131 100		7223	1227	7179	7179	1555	6НХ1131
361 - 64X1131 /226	7178						
362-CHEXA1 1132 100		7224	1228	/180	7175	7223	БИХТТ 32
363-6HX1132 7227	7179						
364-CHEXA1 1133 100		7226	7230	71 32	7.1.7.7	7225	EHX1133
365-GHX1133 7229	7181						•
366-CHEXA1 1134 100		7227	7231	7163	7178	7226	6HX1134
367-CHX1134 7230	7182						
368-CHEXA1 1135 100		7228	7232	7184	7179	7.27	6HX1135
369-6HX1135 7231	7183				•		
370-CHEXAL 1136 100		7230	7234	7186	7181	1229	6E11XH3
371-EHX1136 7233	7185						
· 372-CHEXAL 1137 100	0 7183	7231	7235	7187	7182	7230	1511XH3
373-6HX11.1772.14	7186		<u> </u>				
374-CHEXA1 1138 100	0 7184	7232	. 7236	7188	7183	7231	6HX1138
375-EHX1138 7235	7187			•		•	
376-CHEXA1 1139 100	07186_	7234	7238	21 9.0	7185.	_ 7233	&HX1139.
377-6HX1139 7837	7189						
378-CHEXA) 1140 . 100	0 7187	7255	7239	7141	7186	1234	6HX1146
374- FHX1140 1538	7190			,			
380-CHEXA1 1141 100	0 7188	7236	7240	71.92	7187	7235	EHX1141
381-6nX1141 7239	7191						
382-CHEXAL 1142 100	0 7190	7236		11.46	7165	1237	6HX1142
363-6HX1142 7193	7145						•
384-CHEXAL 1145 100	0 7191	7239	7195	1107	7190	17.38	633X1143
385-EHX1143 /194	7194				·		
386-CHEXA1 1144 100	0 7192	7240	7196	/14H	7191	7239	6HX1144
387-6HX1144 7195	7147				•		
388-CHEXAL 1145 100	2194	7242	7246	7198.	7193	7241	EHX1145
389-6HX1145 7245	7197						
390-CHLXAL 1146 160		7243	7247	7199	7194	1242	CHX1140
391-CHX1146 7246	7198						
392-CHEXA1 1147 1000		7244	7248	7200	7145	7243	EHX1147
393-6HX1147 7247	7199					.,	
394-CHEXAL 1148 100		7246	7250	7202	7147	7245	EHX1148
395-EHX1148 7249	7201					13-24	
396-CHEXAL 1149 100		7247	7251	7203	7198	7246	6HX1149
397-66X1119 7250	7202 _						VIIOSSTE
398-CHEXAL 1150 1000		7248	7252	7204	7199	7247	 6HX1150
399-6HX1150 7251	7203	72 40	12.02	,	,		VIIA 1 1 3 0
400-CHEXA1 1151 100		7250	7254	7206	7201	724¢	_6HX1151
William And	·	I			Y #	1.4.2.2	" " WILVE 1751" "

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COUNT . 1 2	3 4		6				10 .
401-6HX1151 7253	7205	••	••	••	•• (••	
	C1203	7251	7255	7207	7202	7250	SHX1152
403-EHX1152 7254	.7296						
404 - CHI; XAI 115.5 1000		7252	7256	7208	7203	7251	6HX1153
404-6HX1132 /255	7207		1250	7200			07.,7.7.7.7
406-CHEXAI 1154 1000	-	7254	7258	7210	7205	7253	6HX1154
407-EHX1154 7257	7209						
408-CHE XAL 1155 100		/255	7259	7211	7206	7259	E)(X1155
409-EHX1155 7258	7210						
410-CHEXAL 1150 1000	0 7208	/256	7260	7212	7207	1255	6HX1156
	7211						
412-CHEXAL 1157 100	0 7210	7258	7262	7214	7209	7257	EHX1157
413-EHX1157 7261	7213				*		
414-CHEXAL 1158 100	0 7211	7259	7263_	7215	721.0. 1.	7258	6HX1158.
415-6HX1158 7262	7214						
416-CHEXAL 1159 100	0 7212	7260	7264	721e	7211	7254	EHX1159
417-6HX1159 7263	7215						
418-CHEXA1 1160 100	0 7214	7262	7266	7218	7215	7261	EHX1160
419-EHX1100 7265	7217	٠.	•	•			
420-CHEXAL 1161 100	0 7215	7263	7267		7214	7262	6HX1.1.6.1
421-EHX1101 /266	7213						
422-CHEXAL 1162 100	0 7216	7264	726E	7220	7215	7263	PHX1105
423-LHX1102 7267	7219				· 		
424-CHEXA1 1163 100	0 7218	7266	. 7270	7222	. 7217	7265	EHX1163
425-EHX1163 7269	7221				• •		
426-CHLXA1 1164 100	0 7219	7267	7271	1223	7212	_ 7266	EHX1164
427-EHX1164 7270	7222	•					
428-CHEXAL 1165 1000	0 7220	7268	7272	7224	7215	7267	6HX1165
429-LHX1165 7271							
430-CHEXA1 1166 100	0 7222	7270	7274	7226	7221	7269	0011XH3
431-EHX1166 7273	7225				•		•
432-CHEXAL 1167 100	07223	7271	7275 .	7227	7222	7270	. GHX1167
433-6HX1107 /274	7226		• •				
434-CHEXAL 1165 100		72.72	7276	7228	7223	72.71	6HX1168
435-EHX1168 7275	1221						
436-CHEXAL 1169 100		7274	7278	7230	7225	7273	6HX1169
437-6HX1169 /277	7229						
438-CHEXAL 1170 100		7275	Z219	7231	7226	7274	LHX1170.
439-6HX1170 7278	7230			•			
440-CHEXA) 1171 1000		7270	7280	72.32	7227	77.75	EHX1171
441-6HX11(1 72/y	7231						
442-CHEXA1 1172 100		/278	728 2	7234	7229	7277	ЪНХ 1172
443-6HX1172 7281	7233		_				
444-CHEXAL 11/3 160		72/9	7.28.3	.7235	,7230	. 7278	_ br(x1173
445-41/11/3 /282	1234		ma and a				
440-CHE (AL 1174 100)		7280	7284	72.35	1251	1516	ьнх 11 7 4
447-6HX11/4 /283	12.15	7060					
448-CHEXAI 1175 1000		7262	7286	12.58	7235	7281	8нх1175
444-6HX11/5 . 7285	7237	mark of the		***	mp +3 ** 4.	3145	
450-CHLXA1 1176 100	0 7235	7283	72 ë 7.	. 72 39	7834.	. 7282 .	LHX1176

COUNT 1		SUREE	o e a	LK D	AIA	L C H II		
## ## ## ## ## ## ## ## ## ## ## ## ##	CARD							
ASS- CHEXAL 1177 1000 7236 7284 7288 7240 7235 7283 CHXILT7 455- CHEXAL 1178 1000 7238 7286 7242 7194 7237 7285 CHXILT8 7291 7194 455- CHEXAL 1179 1000 7239 7287 7243 7195 7236 7286 CHXILT8 7292 7194 455- CHEXAL 1180 1000 7240 7288 7244 7196 7239 7287 CHXILT9 458- CHEXAL 1180 1000 7240 7288 7244 7196 7239 7287 CHXILT9 458- CHEXAL 1180 1000 7240 7288 7244 7240 7241 7269 CHXILED 400- CHEXAL 1181 1293 7245 7247 7240 7241 7269 CHXILED 400- CHEXAL 1182 1000 7243 7291 7295 7247 7242 7290 CHXILED 403- CHXILED 7294 7246 7243 7291 7295 7247 7242 7290 CHXILED 403- CHXILED 7294 7246 7294 7296 7294 7296 7297	COUNT . 1 2	3 4	•• 5	•• 6	7	8	. 9	. 10 .
454- CHX1177	451- EHX1176 7286	7238						
495- CHEXAI 1178 1000 7236 7240 7242 7194 7237 7285 CHX1178 455- CHEXAI 1179 1000 7239 7287 7283 7195 7236 7286 CHX1179 456- CHEXAI 1180 1000 7240 7288 7284 7196 7239 7287 6HX1160 459- CHEXAI 1180 1000 7240 7288 7294 7246 7241 7269 CHX1161 459- CHEXAI 1181 1000 7242 7290 7294 7246 7241 7269 CHX1161 461- CHEXAI 1182 1000 7243 7295 7297 7294 7246 7241 7269 CHX1161 462- CHEXAI 1182 1000 7243 7291 7295 7247 7242 7290 CHX1182 463- CHEXAI 1183 1000 7244 7292 7296 7248 7243 7291 CHX1182 463- CHX1183 7295 7247 465- CHEXAI 1184 1000 7244 7292 7296 7248 7243 7291 CHX1183 465- CHX1184 7297 7249 466- CHX1184 7297 7249 466- CHX1185 7298 7250 470- CHEXAI 1186 1000 7247 7295 7299 7251 7246 7240 CHX1185 471- CHEXAI 1186 1000 7268 7296 7300 7252 7247 7295 CHX1186 472- CHEXAI 1186 1000 7251 7298 7302 7254 7244 7297 CHX1186 473- CHEXAI 1188 1000 7251 7299 7303 7255 7250 7298 CHX1186 474- CHEXAI 1188 1000 7251 7299 7303 7255 7250 7299 CHX1186 475- CHEXAI 1180 1000 7251 7299 7303 7255 7250 7299 CHX1186 476- CHEXAI 1180 1000 7251 7299 7303 7255 7250 7299 CHX1186 477- CHEXAI 1180 1000 7251 7299 7303 7255 7250 7299 CHX1186 478- CHEXAI 1199 1000 7250 7300 7304 7256 7250 7298 CHX1189 479- CHEXAI 1199 1000 7250 7300 7304 7256 7250 7258 7250 7299 CHX1189 479- CHEXAI 1199 1000 7250 7300 7304 7256 7250 7258 7250 7269 CHX1199 479- CHEXAI 1190 1000 7250 7303 7307 7259 7254 7305 CHX1190 479- CHEXAI 1191 1000 7250 7303 7307 7259 7254 7305 CHX1190 489- CHEXAI 1192 1000 7260 7300 7312 7260 7257 7305 CHX1190 489- CHEXAI 1190 1000 7263 7310 7312 7266 7267 7305 CHX1190 499- CHEXAI 1190 1000 7263 7310 7312 7266 7267 7305 CHX1190 499- CHEXAI 1190 1000 7263 7310 7312 7266 7267 7305 CHX1190 499- CHEXAI 1190 1000 7260 7318 7316 7316 7265 7310 CHX1190 499- CHEXAI 1190 1000 7267 7310 7310 7310 7265 7310 CHX1190 499- CHEXAI 1190 1000 7267 7310 7310 7310 7265 7310 CHX1190 499- CHEXAI 1190 1000 7260 7316 7316 7316 7265 7310 CHX1190 499- CHEXAI 1190 1000 7267 7315 7310 7271 7265 7310 CHX1190	452- CHEXAL 1177 100	07236	7284	7288.	. 7240	7235	7283	LHX1177
ASS- GHX117B 7241 7194 7190 7239 7287 7243 7195 7236 7286 GHX1179 ASS- GHX1179 7242 7194 7288 7284 7196 7239 7287 5181180 ASS- GHX1179 7242 7194 7288 7284 7196 7239 7287 5181180 ASS- GHX1179 7243 7195 7288 7284 7196 7239 7287 5181180 ASS- GHX1180 7243 7195 7290 7294 7246 7241 7289 GHX1181 7293 7245 7290 7294 7296 7247 7242 7290 GHX1181 7293 7245 7291 7295 7247 7242 7290 GHX1182 7294 7286 7294 7295 7247 7242 7290 GHX1182 7294 7284 7294 7295 7248 7243 7291 GHX1183 7295 7247 7295 7296 7248 7243 7291 GHX1183 7295 7247 7295 7296 7248 7243 7291 GHX1183 7297 7244 7295 7294 7295 7290 7295 7295 7295 7295 7295 7295 7296	453- EHX1177 7287	7239						
455 - CHEXAI 1179 1000 7239 7287 7243 7195 7236 7286 CDX1179 457 EHX1179 7242 7194 A58 - CHEXAI 1180 1000 7240 7288 7244 7196 7239 7287 EHX1160 459 - CHEXAI 1181 1000 7242 7290 7294 7240 7241 7259 CHX1160 459 - CHEXAI 1181 1000 7242 7290 7294 7240 7241 7259 CHX1161 7293 7245 7294 7246 7241 7259 CHX1182 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7246 7294 7295 7247 7242 7290 CHX1183 1000 7244 7292 7296 7248 7243 7291 EHX1163 7295 7247 7242 7290 CHX1183 7295 7247 7295 7296 7250 7285 7293 CHX1164 7294 7295 7250 7285 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7295 7297 7297	454- CHEXAL 11/8 100	0 7238	7286	7242	7194	7237	7285	LHX1178
457- CHX 1170 7242 7194 458- CHX XAI 1180 1000 7240 7268 7244 7196 7297 7287 EHX1160 459- CHX XAI 1180 1000 7240 7288 7290 7294 7240 7241 7269 CHX1161 460- CHX XAI 1181 1000 7242 7290 7294 7240 7241 7269 CHX1161 461- CHX XAI 1181 1000 7243 7295 7297 7294 7240 7241 7269 CHX1161 462- CHEXAI 1182 1000 7243 7291 7295 7247 7242 7290 CHX1182 463- CHX XAI 1183 1000 7244 7292 7296 7248 7243 7291 CHX1183 463- CHX XAI 1183 1000 7244 7292 7296 7248 7243 7291 CHX1183 465- CHX XAI 1183 1000 7246 7292 7296 7248 7243 7291 CHX1183 465- CHX XAI 1184 1000 7246 7294 7295 7290 7285 7290 7294 CHX1185 469- CHX XAI 1185 1000 7247 7295 7299 7251 7246 7294 CHX1185 479- CHX XAI 1185 1000 7247 7295 7299 7251 7246 7294 CHX1185 471- CHX XAI 1185 1000 7250 7298 7300 7252 7247 7295 CHX1186 471- CHX XAI 1187 1000 7250 7298 7302 7254 7244 7297 CHX1186 473- CHX XAI 1188 1000 7251 7299 7303 7255 7250 7298 CHX1188 473- CHX XAI 1199 1000 7254 7302 7306 7258 7253 7302 CHX1190 471- CHX XAI 1199 1000 7255 7303 7307 7259 7254 7302 CHX1189 473- CHX XAI 1191 1000 7255 7303 7307 7259 7254 7302 CHX1190 471- CHX XAI 1192 1000 7255 7303 7307 7259 7254 7302 CHX1191 400- CHX XAI 1192 1000 7256 7303 7307 7259 7250 7250 CHX1190 401- CHX XAI 1192 1000 7256 7303 7307 7259 7250 7250 CHX1190 402- CHX XAI 1192 1000 7256 7300 7306 7258 7250 7250 CHX1190 403- CHX XAI 1195 1000 7256 7307 7311 7263 7250 7307 CHX1193 403- CHX XAI 1195 1000 7256 7307 7311 7263 7250 7307 CHX1193 404- CHX XAI 1195 1000 7260 7307 7311 7263 7250 7307 CHX1195 405- CHX XAI 1195 1000 7260 7307 7311 7263 7250 7307 CHX1195 409- CHX XAI 1195 1000 7260 7310 7314 7266 7761 7307 CHX1195 409- CHX XAI 1195 1000 7267 7310 7314 7266 7761 7307 CHX1195 409- CHX XAI 1197 1000 7267 7310 7310 7266 7310 CHX1196 409- CHX XAI 1199 1000 7267 7310 7310 7266 7310 CHX1196 409- CHX XAI 1199 1000 7267 7310 7310 7266 7310 CHX1196 409- CHX XAI 1199 1000 7267 7310 7310 7310 7306 7306 7310 CHX1196 409- CHX XAI 1199 1000 7267 7310 7310 7310 7306 7306 7313 CHX1199 409- CHX XAI 1199 1000 7267	455- CHX1178 7241	7193						ىرىرسى داد.
ASB	456- CHEXAI 1179 100	0 - 7239	7287	7243	7195	7236	7286	EHX 1179
## ASS	457- EHX1179 7242	7194						-
## ABI- CHEXAI 1181 1000 7242 7290 7294 7240 7241 7269 CHX1161 7293 7245 7246 7247 7248 7247 7291 CHX1163 465- CHEXAI 1184 1000 7246 7294 7298 7250 7245 7295 7246 7246 7246 7247 7249 7246 7247 7249 7246 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248 7247 7248	458- CHEXAL 1180 : 100	0 7240	7288	7244	7.1.9.6	7239	_7.287	0.8 I I X H 3
461—EHXILE	459- LHX (160 7243	7195						•
462- CHEXAI 1182 1000 7243 7291 7295 7247 7242 7290 CHX1182 463- CHX1182 7294 7294 7294 7292 7296 7248 7243 7291 CHX1183 463- CHX1183 1000 7244 7292 7296 7248 7243 7291 CHX1183 465- CHX11183 1000 7246 7294 7296 7250 7265 7290 7265 7293 CHX1184 467- CHXXAI 1184 1000 7247 7295 7299 7251 7246 7294 CHX1185 7298 7250 7247 7295 7299 7251 7246 7294 CHX1185 7298 7250 7250 7297 7247 7295 CHX1186 7299 7251 7246 7247 7295 CHX1186 7299 7251 7246 7247 7295 CHX1186 7299 7251 7254 7247 7295 CHX1186 7299 7251 7254 7247 7295 CHX1186 7299 7251 7253 7254 7247 7297 CHX1187 7301 7253 7254 7247 7297 CHX1187 7302 7254 7247 7295 CHX1188 7302 7254 7247 7255 7250 7298 CHX1188 7302 7254 7247 7255 7250 7298 CHX1186 7255 CHX1188 7302 7254 7255 7250 7258 CHX1189 7303 7255 7250 7258 7250 CHX1189 7303 7255 7250 7258 7250 CHX1189 7303 7255 7250 7258 7250 7258 7250 CHX1199 7250 7254 7255 7250 7258 7250 CHX1199 7255 7250 7258 7250 7258 7250 CHX1199 7255 7250 7258 7250 7258 7250 7258 7250 7258 7250 7258 7250 CHX1199 7255 7250 7258 7250 CHX1199 7250 7258 7250 7250 7250 7250 CHX1199 7250 7250 7250 7250 7250 7250 7250 7250			7290	7294	7246	7241	7269	6HX1161
463 - CHEXAL 1183 1000 7294 7292 7296 7248 7293 7291 CHX1183 465 - CHX1183 7295 7247 466 - CHEXAL 1184 1000 7246 7294 7298 7250 7265 7293 CHX1184 7297 7292 7294 7295 7290 7281 7246 7294 CHX1184 7297 7292 7294 7295 7297 7295 7299 7251 7246 7294 CHX1185 7298 7250 7298 7250 7298 7250 7298 7250 7298 7250 7298 7250 7298 7250 7298 7250 7298 7299 7251 7246 7294 CHX1185 7298 7250 7250 7298 7300 7252 7247 7295 CHX1186 7299 7251 7299 7251 7247 7295 CHX1186 7299 7251 7299 7303 7255 7250 7298 CHX1185 7301 7253 7254 7299 7303 7255 7250 7298 CHX1186 7302 7254 7299 7303 7255 7250 7298 CHX1188 7302 7254 7299 7303 7255 7250 7298 CHX1189 7303 7255 7250 7298 CHX1199 7305 7252 7309 7304 7256 7258 7253 7361 CHX1199 7305 7258 7300 7304 7258 7253 7361 CHX1199 7305 7258 7305 7258 7253 7361 CHX1199 7305 7258 7303 7307 7259 7254 7302 CHX1199 7305 7258 7303 7307 7259 7254 7302 CHX1199 7305 7258 7307 7308 7259 7254 7302 CHX1199 7307 7259 7254 7307 7311 7263 7259 7307 7311 7263 7259 7307 CHX1195 7311 7263 7259 7307 7311 7263 7256 7307 7307 7311 7263 7259 7307 CHX1195 7317 7265 7307 7311 7263 7259 7307 CHX1195 7317 7265 7307 7311 7263 7259 7307 CHX1195 7317 7265 7318 7318 7315 7267 7315 7316 7316 7316 7316 7316 7316 7316 7316				·		·		
A6A CHEXAI 1183 1000 7244 7292 7296 7248 7243 7291 CHX1183 465 - CHEXAI 1184 1000 7746 7294 7298 7250 7245 7293 CHX11164 467 - CHEXAI 1185 1000 7247 7295 7299 7251 7746 7294 CHX11165 469 - CHEXAI 1185 1000 7247 7295 7299 7251 7746 7294 CHX11165 7298 7250 7298 7300 7252 7247 7295 CHX11166 7299 7251 472 - CHEXAI 1187 1000 7250 7298 7302 7254 7247 7297 CHX11187 7253 7254 7254 7254 7297 CHX11187 7253 7254 7255 7250 7298 7302 7254 7255 7256 7257 7259 CHX11189 7302 7254 7300 7304 7255 7256 7257 7259 CHX11189 7303 7255 7300 7304 7256 7257 7259 CHX11190 7303 7257 7305 7257 7305 CHX11191 7305 7257 7305 7307 7305 7307 7305 CHX11192 7307 7259 7304 7305 7307 7305 7307 7305 CHX11192 7307 7259 7307 7306 7307		0 7243	7291	7295	7247	7242	7290	CHX1182
465- CHEXAI 1184 1000 7246 7294 7298 7250 7245 7293 CHX1164 467- CHEXAI 1184 1000 7247 7295 7299 7251 7246 7294 CHX1164 468- CHEXAI 1185 1000 7247 7295 7299 7251 7246 7294 CHX1165 7298 7250 7296 7250 7297 7251 7247 7295 CHX1166 7299 7251 7297 7297 7297 CHX1166 7299 7251 7299 7251 7247 7295 CHX1166 7299 7251 7299 7252 7247 7295 CHX1166 729- CHEXAI 1180 1000 7250 7298 7302 7254 7247 7297 CHX1167 7301 7253 7254 7302 7254 7247 7297 CHX1168 7302 7254 7302 7255 7250 7298 CHX1168 7302 7254 7302 7255 7250 7298 CHX1168 7302 7254 7302 7304 7256 7257 7259 CHX1169 7303 7255 7300 7304 7256 7257 7259 CHX1169 7303 7255 7300 7304 7256 7258 7250 7298 CHX1169 7303 7255 7300 7304 7256 7258 7250 7298 CHX1169 7303 7255 7300 7304 7256 7258 7250 7259 CHX1169 7305 7257 7305 7258 7250 7258 7301 CHX1190 7305 7257 7305 7258 7300 7307 7259 7254 7302 CHX1191 7305 7258 7300 7307 7259 7254 7302 CHX1191 7306 7258 7306 7306 7258 7250 7255 7303 CHX1192 7307 7259 7254 7302 CHX1192 7307 7259 7254 7302 CHX1193 7305 7258 7306 7316 7262 7257 7305 CHX1193 7305 7258 7306 7316 7262 7257 7305 CHX1193 7305 7262 7306 7307 7311 7263 7258 7306 CHX1193 7307 7262 7308 7307 7311 7263 7258 7306 CHX1194 7310 7262 7310 7314 7266 7261 7309 CHX1194 7310 7262 7310 7314 7266 7261 7309 CHX1194 7310 7262 7310 7314 7266 7267 7267 7310 CHX1196 7315 7267 7315 7267 7315 7267 7315 7315 7267 7315 7315 7315 7315 7315 7315 7315 731		•						
### ### ##############################			7292	7296	7248	7243	7291	EHX1183
### ### ##############################	•							
### A68- CHCXAI 1185 1000 7247 7295 7299 7251 7246 7294 LHX11H5 A69- SHX1185 7298 7250 7250 7250 7250 7250 7250 7250 7250			7294	7298	7250	7245	7293	LHXIIha
## 409 SHX1185 T798 T250 T298 T290 T300 T252 T247 T295 CHX1186 T299 T251 T291 T251 T297 T251 T253 T254 T244 T244 T297 CHX1186 T299 T251 T253 T254 T244 T244 T297 CHX1187 T253 T254 T244 T244 T297 CHX1188 T302 T254 T297 T253 T254 T255 T250 T258 T257 T250 T258 T257								erice in a section.
### ### ##############################			7295	7299	7251	.7246	7294	LHX1185
471- LHX1186 472- CHEXAL 4187 4000 7250 7258 7298 7302 7254 7249 7277 7250 7251 7291 7253 7251 7297 7303 7255 7250 7250 7250 7250 7250 7250 7250						1		
472- CHEXAL 1187 1000 7250 7298 7302 7254 7244 7297 CHX1187 473- CHX1187 7301 7253 474- CHEXAL 1188 1000 7251 7299 7303 7255 7250 7298 CHX1188 475- CHX1188 7302 7254 476- CHEXAL 1189 1000 7252 7300 7304 7256 7251 7299 CHX1169 477- CHX1189 7303 7255 478- CHEXAL 1190 1000 7254 7302 7306 7258 7253 7301 CHX1190 479- CHXAL 1190 7305 7297 480- CHEXAL 1191 1000 7255 7303 7307 7259 7254 7302 CHX1191 481- CHX1191 7306 7258 483- CHEXAL 1192 1000 7256 7304 7306 7260 7255 7303 CHX1192 483- CHXILIP2 7307 7259 484- CHEXAL 1192 1000 7256 7304 7306 7260 7255 7303 CHX1192 485- CHXILIP2 7307 7259 486- CHEXAL 1193 1000 7258 7300 7310 7262 7257 7305 CHX1193 486- CHXILIP3 7309 7261 486- CHXILIP3 1309 7261 486- CHXILIP3 1300 7262 487- CHXILIP4 7310 7262 488- CHXILIP5 7311 7263 489- CHXILIP5 7311 7263 499- CHXILIP5 7313 7265 491- CHXILIP6 7313 7265 492- CHEXAL 1194 1000 7263 7311 7315 7267 7262 7310 CHXILIP6 493- CHXILIP6 7313 7265 494- CHXILIP7 7314 7266 494- CHXILIP7 7314 7266 494- CHXILIPF 7315 7267 494- CHXILIPF 7315 7267 494- CHXILIPF 7315 7267 496- CHXILIPF 7315 7267 496- CHXILIPF 7317 7269 497- CHXILIPF 7317 7269 498- CHXILIPF 7317 7260 499- CHXILIPF 7318 7270			7256	7300	7252	7297	AS02	611X1186
473 LHX1187 7301 7254 7299 7303 7255 7250 7298 EHX1188 7474 CHEXA1 1188 1000 7251 7299 7303 7255 7250 7298 EHX1188 746 CHEXA1 1189 1000 7252 7300 7304 7256 7251 7299 CHX1189 7303 7255 7303 7304 7258 7253 7301 EHX1190 7305 7257 7305 7257 7305 7257 7305 7257 7305 7257 7305 7257 7306 7258 7307 7259 7254 7302 LHX1191 7306 7258 7303 7307 7259 7254 7302 LHX1191 7306 7256 7304 7306 7259 7254 7302 LHX1191 7306 7256 7304 7306 7260 7255 7303 EHX1192 7307 7259 7305 EHX1192 7307 7259 7306 7310 7262 7257 7305 EHX1192 7307 7259 7307 7310 7262 7257 7305 EHX1193 7309 7261 7305 EHX1194 7310 7262 7307 7311 7263 7256 7306 LHX1194 7316 7262 7308 7312 7264 7259 7307 LHX1195 7307 LHX1195 7307 LHX1195 7307 LHX1195 7307 LHX1195 7307 LHX1195 7307 LHX1196 7308 7308 7312 7264 7259 7307 LHX1196 7308 CHXA1 1196 1000 7262 7310 7314 7266 7261 7309 LHX1196 7315 7267 7316 LHX1197 7316 7268 7316 EHX1197 7316 7268 7316 EHX1197 7316 7268 7316 EHX1197 7315 7267 7316 EHX1197 7315 7267 7316 EHX1198 7315 7267 7316 EHX1199 7317 7269 EHX1199 7317 7269 7316 EHX1199 EHX1199 EHX1199 7317 7269 7316 7316 7316 7316 7316 7316 7316 EHX1199 7317 7316 EHX1199 EHX1190		•	*****					
474- CHEXAI 1188 1000 7251 7299 7303 7255 7250 7298 EHX1188 475- GHX1188 7302 7254 476- CHEXAI 1189 1000 7252 7300 7304 7256 7251 7299 GHX1169 477- GHX1189 7303 7755 478- CHEXAI 1190 1000 7254 7302 7306 7258 7253 7301 EHX1190 479- GHX1190 7305 7257 480- CHEXAI 1191 1000 7255 7303 7307 7259 7254 7302 GHX1191 481- EHX1191 7306 7258 482- CHEXAI 1192 1000 7256 7304 7306 7260 7255 7303 EHX1192 483- GHX1192 7307 7259 484- CHEXAI 1193 1000 7258 7300 7310 7262 7257 7305 EHX1193 485- GHX1193 7309 7261 486- CHEXAI 1194 1000 7259 7307 7311 7263 7256 7306 CHX1194 487- GHX1194 7310 7262 488- CHEXAI 1195 1000 7260 7300 7312 7264 7259 7307 GHX1195 489- GHX1195 7311 7263 490- CHEXAI 1190 1000 7262 7310 7314 7266 7261 7309 EHX1196 491- GHX1191 7314 7266 492- CHEXAI 1197 1000 7263 7311 7315 7267 7262 7310 GHX1197 493- EHX1197 7314 7266 494- CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 EHX1198 495- GHX1198 7315 7267 494- CHEXAI 1199 1000 7266 7314 7316 7268 7263 7311 EHX1198 495- GHX1198 7315 7267 496- CHEXAI 1199 1000 7266 7314 7316 7268 7263 7313 EHX1199 497- GHX1198 7315 7267 498- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 EHX1200 499- EHX1199 7317 7269			7298	7302	7254	7244	7297	LHX1187
475- CHX1188			2000					
476- CHEXAL 1189 1000 7252 7300 7304 7256 7251 7299 CHX1189 477- CHXX1189 7303 7255 7306 7258 7258 7258 7301 CHXX1190 7305 7257 7305 7258 7302 CHXX1191 7306 7258 7303 7307 7259 7254 7302 CHXX1191 481- CHXX1191 7306 7258 7304 7306 7258 7303 CHXX1191 7306 7258 7304 7306 7259 7257 7303 CHXX1192 7307 7259 7307 7310 7262 7257 7305 CHXX1192 7307 7259 7307 7310 7262 7257 7305 CHXX1193 7309 7261 7308 7311 7263 7258 7306 CHXX1194 7310 7262 7307 7311 7263 7258 7306 CHXX1194 7310 7262 7308 7312 7264 7259 7307 CHXX1195 7307 CHXX1195 7307 CHXX1195 7307 CHXX1195 7307 CHXX1195 7307 CHXX1195 7308 7311 7309 CHXX1195 7313 7265 7308 7314 7266 7761 7309 CHXX1196 7315 7267 7267 7262 7310 CHXX1197 7314 7266 7261 7309 CHXX1197 7314 7266 7314 7315 7267 7268 7311 CHXX1197 7315 7267 7268 7311 CHXX1197 7315 7267 7268 7311 CHXX1198 7315 7267 7268 7311 CHXX1198 7315 7267 7268 7313 CHXX1199 7317 7269 7318 7315 7316 7316 7370 7316 7318 CHXX1199 7317 7317 7318 7310 7315 7316	•	•	7299	7303	7255	6820	7298	EHX1188
477- LHX1189			2200	770.		7000	2050	
478- CHEXAI 1190 1000 7254 7302 7306 7258 7353 7361 CHX1190 479- CHX1190 7305 7257 480- CHEXAI 1191 1000 7255 7303 7307 7259 7254 7302 CHX1191 481- CHX1191 7306 7258 482- CHEXAI 1192 1000 7256 7304 7306 7260 7255 7303 CHX1192 483- CHX1192 7307 7259 484- CHEXAI 1193 1000 7258 7306 7310 7262 7257 7305 CHX1193 485- CHX1193 7309 7261 486- CHEXAI 1194 1000 7259 7307 7311 7263 7256 7306 CHX1194 487- CHX1194 7310 7262 488- CHEXAI 1195 1000 7260 7308 7312 7264 7259 7307 CHX1195 489- CHX1195 7311 7263 490- CHEXAI 1196 1000 7262 7310 7314 7266 7261 7309 CHX1196 491- CHXI196 7313 7265 492- CHEXAI 1197 1000 7263 7311 7315 7267 7262 7310 CHX1196 493- CHXI197 7314 7266 494- CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 CHX1198 495- CHXAI 1199 1000 7266 7314 7316 7268 7263 7311 CHX1198 497- CHXAI 1199 1000 7266 7314 7316 7270 7265 7313 CHX1198 497- CHXAI 1199 1000 7267 7319 7271 7266 7314 EHX1199 497- CHXAI 1199 1000 7267 7315 7319 7271 7266 7314 EHX1200 498- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 EHX1200	,		1300	7304		(451		THE TTO A
## A79- CHEXAL 1191 1000 7255 7303 7307 7259 7254 7302 CHX1191 ### A80- CHEXAL 1191 7306 7258 7304 7306 7260 7255 7303 CHX1192 ### A80- CHEXAL 1192 1000 7256 7304 7306 7260 7255 7303 CHX1192 ### A80- CHEXAL 1192 1000 7258 7300 7310 7262 7257 7305 CHX1193 ### A80- CHEXAL 1193 1000 7258 7300 7310 7262 7257 7305 CHX1193 ### A80- CHEXAL 1194 1000 7259 7307 7311 7263 7256 7306 CHX1194 ### A80- CHEXAL 1194 1000 7260 7308 7312 7264 7259 7307 CHX1195 ### A80- CHEXAL 1195 1000 7262 7310 7314 7266 7261 7309 CHX1196 ### A90- CHEXAL 1196 1000 7262 7310 7314 7266 7261 7309 CHX1196 ### A90- CHEXAL 1197 1000 7263 7311 7315 7267 7262 7310 CHX1197 ### A90- CHEXAL 1198 1000 7264 7312 7316 7268 7263 7311 CHX1198 ### A90- CHEXAL 1198 1000 7264 7312 7316 7268 7263 7311 CHX1198 ### A90- CHEXAL 1199 1000 7266 7314 7316 7270 7265 7313 CHX1199 ### A90- CHEXAL 1199 1000 7267 7315 7319 7271 7266 7314 CHX1199 ### A90- CHEXAL 1200 1000 7267 7315 7319 7271 7266 7314 CHX1190 ### CHEXAL 1200 7318 7270 7319 7311 7314 7316 7			2 30.9	2344	2010	. 20.5	226.	r 1 1 4 1 1 4 1 4 1
## 480 - CHEXAI 1191 1000 7255 7303 7307 7259 7254 7302 LHX1191 481 - EHX1191 7306 7258 7304 7306 7260 7255 7303 EHX1192 482 - CHEXAI 1192 1000 7258 7304 7306 7260 7255 7303 EHX1192 483 - GHX1192 7307 7258 7306 7310 7262 7257 7305 EHX1193 485 - EHX1193 7309 7261 7307 7311 7263 7258 7306 EHX1194 487 - EHX1194 7310 7262 7308 7312 7264 7259 7307 EHX1195 489 - CHEXAI 1195 1000 7262 7308 7312 7264 7259 7307 EHX1195 491 - EHX1195 7313 7265 7310 7314 7266 7261 7307 EHX1196 491 - EHX1196 7313 7265 7311 7315 7267 7262 7310 EHX1197 493 - EHX1197 7314 7266 7312 7316 7268 7263 7311 EHX1198 495 - CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 EHX1198 495 - CHEXAI 1199 1000 7266 7314 7316 7266 7261 7307 EHX1199 497 - CHEXAI 1199 1000 7266 7314 7316 7270 7265 7313 EHX1199 497 - CHEXAI 1290 1000 7266 7314 7315 7270 7265 7313 EHX1199 497 - CHEXAI 1290 1000 7267 7315 7319 7271 7266 7314 EHX1200 499 - EHX1200 7318 7270 7315 7270 7315 7319 7271 7266 7314 EHX1200 699 - EHX1200 7318 7270 7315 7319 7319 7371 7316 EHX1200 699 - EHX1200 7318 7370 7315 7319 7319 7371 7316	•		7.30%	7306	1250	1200	7301	60X1140
481 - 6HX1191			7303	7307	7254	7256	7709	L 1/2 1 1 0 1
482- CHEXAI 1192 1000 7256 7304 7306 7260 7255 7303 6HX1192 483- GHX1192 7307 7259 484- CHEXAI 1193 1000 7258 7300 7310 7262 7257 7305 6HX1193 485- GHX1193 7309 7261 486- CHEXAI 1194 1000 7259 7307 7311 7263 7256 7306 6HX1194 487- GHX1194 7310 7262 488- CHEXAI 1195 1000 7260 7308 7312 7264 7259 7307 6HX1195 489- 6HX1195 7311 7263 490- CHEXAI 1196 1000 7262 7310 7314 7266 7761 7309 6HX1196 491- GHX1196 7313 7265 492- CHEXAI 1197 1000 7263 7311 7315 7267 7262 7310 6HX1197 493- 6HX1197 7314 7266 494- CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 6HX1198 495- GHX1198 7315 7267 496- CHEXAI 1199 1000 7266 7314 7316 7270 7265 7313 6HX1199 497- GHX1199 7317 7269 498- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 6HX1200 499- 6HX1200 7318 7270	the contract of the contract o		,,,,,	7307	7235		1502.	CUV1121
483- GHX1192 7307 7259 484- CHEXAI 1193 1000 7258 7306 7310 7262 7257 7305 CHX1193 485- CHXI193 7309 7261 486- CHEXAI 1194 1000 7259 7307 7311 7263 7256 7306 CHX1194 487- GHX1194 7310 7262 488- CHEXAI 1195 1000 7260 7308 7312 7264 7259 7307 CHX1195 489- CHEXAI 1195 1000 7262 7310 7314 7266 7261 7309 CHX1196 491- GHX1195 7313 7265 492- CHEXAI 1197 1000 7263 7311 7315 7267 7262 7310 CHX1197 493- CHEXAI 1197 7314 7266 494- CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 CHX1198 495- GHX1198 7315 7267 496- CHEXAI 1109 1000 7266 7314 7316 7270 7265 7313 CHX1199 497- CHXI199 7317 7269 498- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 EHX1200 499- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 EHX1200			7304	7305	7260	7255	7.303	EHY1169
484- CHEXAI 1193 1000 7258 7306 7310 7262 7257 7305 EHX1193 485- EHX1193 7309 7261 486- CHEXAI 1194 1000 7259 7307 7311 7263 7256 7306 EHX1194 487- EHX1194 7310 7262 488- CHEXAI 1195 1000 7260 7308 7312 7264 7259 7307 EHX1195 489- EHX1195 7311 7263 490- CHEXAI 1196 1000 7262 7310 7314 7266 7261 7309 EHX1196 491- EHX1196 7313 7265 492- CHEXAI 1197 1000 7263 7311 7315 7267 7262 7310 EHX1197 493- EHX1197 7314 7266 494- CHEXAI 1198 1000 7264 7312 7316 7268 7263 7311 EHX1198 495- GHX1198 7315 7267 496- CHEXAI 1199 1000 7266 7314 7318 7270 7265 7313 EHX1199 497- GHX1199 7317 7269 498- CHEXAI 1200 1000 7267 7315 7319 7271 7266 7314 EHX1200 499- EHX1200 7318 7270								
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	498- CHEXA1 1200 1000		7315	7319	7271	7266	7314	COSTXH3
500- CHEXAL 1201 1000 7268 7316 7320 7272 7267 7315 EHX1201	499- 8HX1200 7318	7270			-			
	500- CHLXA1 1701 1000	7268	7310	7320	72.72	7267	7315	6HX1201

4. A.H		5.0	RIED	3 U L	K D A	1 A 1	С Н П		-
COUNT 1	. 2 .	. 3	4	. 5	• · · · ·				• • • • • • • • • • • • • • • • • • • •
501-6HX1201	7319					••	••	• •	10 .
SUR=_CHEXA1	1202	1000	72.70	7318	7322.	.7274	7.269	7517	
503-EHX1202	7321	72.73	3						
504 - CHEXAL	1203	1000	7271	7319	7323	7275	7210	7318	E021X43
502-FHX1503	1322	72/4	.	·					
506 - CHEXAL	1204	1000	7272	7320	7324.	7276	7271	7319	6HX1204
507- EHX1204	7323	7279	9				•		
508- CHEXAL	1205	1000	7274	1322	7326	7278	7273	7321	EHX1.205.
509-6HX1205	7325	7277	7						
510- (HEXA)	1206	1000	72.75	7323	/327	1279	1214	7322	CHX12/06
511-6HX1206	7320	7278	.						
512-CHEXA1	1207	1000	7276	7324	7328	7250	7275	7323	3.081XH3.
513- £HX1207	/327	7279	è				•		
514- CHEXAL	1200	1000	7278	7326	7.330	7282 _	.7277	7325	EHX1208
515- LHX1208	7329	7281					•		
516-CHEXAL	1209	1000	7274	7327	7331	EBS1	7278	7326	6HX1209
517-1HX1209	7.130	7282	<u> </u>						
518- CHEXAL	1210	1000	7280	7328	7332	7284	7274	7327	EHX1210
519-EHX1210	7331	7283	3				. •		•
520-CHEXAL	1211	1000	7282	7330	7334	.7286	7281	7329	.EHX12.11
521 - 6HX1211	7333								
522- CHEXA1	1212	1000	1283	7.531	7335	7287	7282	7330	UHX1212
523-CHX1212									
524- CHEXAL	1213	1000	7284	7332	7336	7288	7283	7.331	EHX1213
525- 6HX1213	7339		,						
520- CHEXAL		1000	7286	73.14	7250	1242	. 7 285	7333	CHX1214
527- 6HX1214	7285	7241	l						
528- CHEXA)	1215	1000	7287	1335	7291	7243	7286	1334	EHX1215
. 529-EHX1215		1202	2						
530- CHEXA1	1216	1000	7288	7336	7292	7244	7287	7336	6131XH3
531-6HX1216	7291		3						
532- CORD2C				-30.494	6-130	200.0	-30.494	6 1.35	ECSSRM
533- 6055KM	14.138	0.0	0.0						
534 - CORDER	101	696	74.738	-30.494	0 - 1 30	70 - 730	-26.1.70	r I to entend	EWS SWM
536-6855kn	200.	-34.444						• • • • • • • • • • • • • • • • • • • •	
536-CURD2R	696	0	-81.568		35.5985	-80.22	78.0	57.5136	ERSTANK
537- ERSTANK	68.25	0.0	48.432	•					
538- CUUAD2		100	7001	7049	7053	7005		·	
539- COUADS	2	100	7005	7053	7057	7009	•0.		
540- CUUAD2	3	100	7009	7057	7061	7013	•0		
541 - LUUAD2	4	100	7013	7061	7065	7017	0		
542- CQUAD2	5	100	7017	7065	7069	7021	•0		
543- CUUAD2	6	100	7021	7069	7073	7025	•0		٠
_544= COUAU2	7	100	7025	7073	7077	7029			
545- CGUAU2	٠ و	100	7029	7077	7081	7033			
546 - LUUAD2	ÿ	100	7033	7054	7025	7037	•0	•	•
547- COUAD2	10 .	100	7037	7085	7089	7041	0		
548- CGUADZ	11	100	7041	7089	7093	7045			
549- CQUAD2	12	100	7045	7093	7049	7001	∎Ů.		
550- CQUAD2	13	100	7049	7097	7101	7053	= O		*
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COUNT . 1	14	100	7053	7101	7105	7057	.0	0	••	• • •	
552-COUAD2	_15	100	7057	7101	7105 7109	7057	0_		•	•	
	16	100	7061	7109	7113	7065	C				
553-CUUAD2 554-CUUAD2	17	100	7065	7113	7113	7069	.0				
554- CQUAD2	18	100	7069	7117	7121	7073	O				
556-COUADZ		100	7073	7121	7125	7077	. 0				
557- CQUAD2	20	100	7077	7125	7129	7081	•0				
558-LOUADZ	21	100	7081	7129	7133	7085_	0				
559- CUUADE	22	100	7085	7133	7137	7089	.0	-:			·
560- CGUADZ	23	100	7089	7137	7141	7093	.0				
561- CUUAU2	24	100	7093	7141	7097	7049	.0				
562- COUAD2	25	100	7097	7145	7149	7101	.0				
563- COUAD2	20	100	7101	7149	7153	7105	.0		٠		
564- CUUADZ	27	100	7105	7153	7157	7109	.0				
565- COUAD2	28	100	7109	7157	7161	7113	.0			-	
566- COUAUR	29	100	7113	7161	7165	7117	•0.				•
567- CQUADZ	30	100	7117	7105	7169	· 7121	. 0	:		•	
568- CQUAD2	31	100	7121	7169	7173	7125	•0	. •			
569-CQUAD2	32	100	7125	7173	7177	7129	•0				
	32 33	100	7129	7173	7181						
570- CQUAD2	34	100	7133	7181		7133					• • • • • •
571- COUAD2		100	7133	7185	7185	7137					
572- COUAD2	35	100			71.89	7141	.0				
573- CQUAU2	<u> </u>	100	7141	7169	7145	7047					
574- COUAD2	37	100	7145	7193	7197	7149	•0.				
575-CQUAU2	38		7149	7197	7201	7153	•0				
576-COUAD2	<u> 39</u>	100	7153	7201	7205	7157	0				
577- CQUA02	40	100	7157	7205	7209	7161	•0				
578- CQUAD2	41	100	7161	7209	7213	7165	.0				
579- LUUAU2	42	100	7165	7213	7217	7169	.0			· · · · · · · · · · · · · · · · · · ·	
580- COVADZ	43		7169	7217	7221	71.73					
581- COUAU2	44	100	7173	7221	7225	7177	• 0				
582-CUUAD2	<u>45</u>	100 100	7177	1,225	7229	7181	• 0				
583- CQUAD2	40		7161	1224	1233	7185	•0				
584- CUUAD2	47	., 100	7185	7233	1231	7189	• (1				
585- CUUAD2	44	100	7189			<u></u>	U.	•		-	
586- CQUAD2	49	100	71 93	7241	1245	7197	• 0				
587-CQUAD2	50 .	100	7197	7245	7249	7201	• 0				
588-CQUAD2	_51	100	7201	7249	7253	7205	 0				
589- CUUAD2	52	100	7205	7253	7257	7209	•0				
590- CQUAD2	53	100	7209	7257	7201	7213	•0				
591 - CQUAG2	54	100	7213	7261	7265	7217	.0.				
592- CQUAU2	55	100	7217	7265	7269	7221	•0				•
593-CQUADS	56	100	7221	7269	7273	7225	• 0			•	
594- COUAD2	57	100	7225	7273	7277	7229	.0			·	
595- CUUAU2	58	100	7229	7277	7281	7233	•0			•	
596- CUUAU2	59	100	/233	7281	7285	1231	•0				
547- LUUAUZ	٠.٠	100	7237	7285	7241	7193	•0				
598-CUUAD2	61	100	7241	7289	7293	7245	• 0				
599- COUAD2	62	100	7245	7243	7297	7249	• 0				
400 COLLADS	4 3	1.00	7240	7247	***	70.417					

COUNT . 1	2	3		5	6			Į.				10
601- CQUAD2		100	•• 4 7253	7301	•• 6 7305	7257	• 0	. **	• •	••	••	10
602- CQUAD2	64	100	7257	7305	7305	7261	•0					
603- CQUAD2	66	100	7261	7309	7313	7265	• 0					
604- CQUAD2	67	100	7265	7313	7313	7269	• 0					
605 - COUAD2	68	100	7269	7317	7321	7273	<u></u> Q.					
606- COUAD2	69	100	7273	7321	7325	7277	•0			***		
607- CQUAD2	70	100	7277	7325	7329	7281	•0					
608- COUADZ	71	100	7281	7329	7333	7285	•0					•
609~ CQUAD2	72	100	7285	7333	7289	1659 7241	•C	• • •-				
610- CUUAD2	401	400	69 01	6913	6914	6903	• 6					
		400		6914								
611- CQUAU2 612- CQUAU2	403	400	6003	6915	6715_	6020	- •0 •0			- :		-
	404	400	6903 6904	6915	6916 6917	1 6404 6405	•0					
613- CQUAD2										•		
614= CQUAQ2		400	6945.	6917	6918	6906	• C ·					•
615- COUAD2	406	403	6906	6918	6910	6507	• 0					
616- CQUAD2	407	403	6907	6919	6920	60034	• ()					
617- COUAU2	403	400	6908	6920_		6999	•0					
618- CQUAD2	409	400	6909	6921	6922	6910	• 0					
619- CQUAD2	410	400	6910	6922	6923	6911	•0					
620 - CQUAD2	411	400	6911_	6923	6924	6912	•C.	·				
621- CQUADS	412	400	6912	6924	6913	6901	• (
622- CQUAD2	413	400	6913	6925	6926	6914	•0					
623- COUAD2	414	4.00	6914	6926	6927	6215	0.					
624 - CQUAD2	415	400	6915	6927	6928	6916	• 0	٠.				
625- CQUAD2	416	400	6916	6928	6929	6917	• 0					
626- CQUAD2	417	401	6917_	6929	6930	69.1.3					••	
627- CQUAD2	418	404	6918	6930	6931	6019	• 0					
628 - CQUAD2	419	404	6019	6931	6938	6920	•0				•	
629- CCUA'12	420	401	5920	6932	69.3	C92L_		• • • • • • • • • • • • • • • • • • • •				
630- CQUAD2	421	400	6921	6933	69.34	6922	• 0					
631 - CQUADS	422	400	6922	6934	6935	6983	. •0					
632-COUAL2		400	6923	6935	6936	6924	• 0					-
633- CQUAD2	424	400	6924	6936	6925	6913	• 0	-				
634- CQUAD2	425	400	6925	693 7	6938	6926	• 0					
635- CQUAD2		4.00	0750_	<u>6938</u>	6949		. u					
636~ COUAD2	427	400	6927	6939	6440	6428	•()					
637- CQUAD2	428	400	6928	6940	6941	6929	• ()					
638CQUAD2.		4.02	6929	6941		いりづひ	• 0					
635- COUAL2	430	405	6530	PA45	644	6931	. •0					
640~ COUADS	431	405	6031	6943	6444	69.52	• 0					
641CUUAU2_		402	6932	6944	بتفعمت	6933	∪					
642- CQUAD2	433	400	6933	6945	6946	6934	• O			•		
643- CQUADR	4 34	400	6934	6946	6947	6935	• ()					
644- COUAD2		4.00	<u>C235</u>	6947	6.948	5936	•0					
645- CQUAL2	430	400	6936	6448	6937	6485	-0					
646- CJUAU2	437	400	6937	7001	7005	6939						
647- COUADS	9.3/3	400	0938	7005	7000	6932					<i></i>	
648- COUAD2	439	400	6939	7009	7013	6940						
649- CQUAD2	440	400	6940	7013	7017	6941						
650- COUAD2	441	400	6941	7017	7021	0942						_

				`					
COUNT. I	•• 2	•• 3	6942				•• , 8	•• 9.	1
651-CQUAD2	442	400	6942	7021 7025	7025 7029	6943			
652-CQUAD2	944	400	6944	7029		6999			
653- CQUAD2 654- CQUAD2	444 443	400	0944	7033	7035	6945			
654- COUADA		400	6945	7033 7037	7057 	6946			
. 656- CUUAUZ	440	400	6947	7041	7045	_69.4%			
657-CUUADE	448	400	6948	7045	7045	6937			
658-0M1	HE AC	0				6431			
030=DHI	BFAL.	1			2		1	• .	
660-DMI	CPAJC	0	2	1	3		1		
001-DMI	CPAJC	1	_ 1	1.0	1			•	
662-DM1	EUR	0	_ 2	1	2	 · · · · · ·	-,, ^-		
663-DMI	EOR	ų 1	1				6	9 46	121501
664-6EQ1				•012047	98033	9-140424	33.0854	-81-00	9761 O I
665-0MI	-109-3	2	1	04-4-514	8.43 78.453.4	417914 114			
	EGR 23.20		•	•05985	·197328	•978504	-26.016	4-107.10	1061.05
666-ELU?	52.50	10		- 01304	3 13 13 13 13 13 13	9.41 - 63.5			
668-6EQ3	108.19	1 13:		==01204	T•300335	13695	9-13-621	AS1 * 20X	CEUS
· · · · · · · · · · · · · · · · · · ·		10 		- 01204	7 MOA 774	104.05			5 (EAA
669-DM1 670-6E04	EUR	-	1	01204	7.900330	-•14042	9-28-914	63.2343	8 CC(14
671-DMI		5	1	•05985	1437700	0.704.04	24 663	1 14 0-	
672-LEUS	4.805	-	•	•09963	•19/328	6978504	-25.583	1-16-06	376593
673-0E03	- FUR	04		-99813	3	04.10+		44 450	
674-8E06	19.37	<u> </u>					1.18502	39.439.	3(J.iV.)
675-DMI	GFAC	44 0	. 2	1	2		. 1		
676-DM1	GFAC	· 1	1	1.0	2		•	• ,	
677-UMI	KFAC	v	2	<u> </u>	2		ž. –		
678-DMI	KFAL	1	1	1.0	· .		ı	,T	
679-GKDSET	KFAC	100	•	1.0	•	• 00		•	
· 680- GRID	6901		9.750	180.000	25 240	100			
681-GRID	6902	•	9.750	150.000					
682-GRID	6903		9.750		•				
- 683- GRID	0904		9.750	120.000 90.000	25.242	***			
084-6R10	6505		4.750	60.000	25.247				
			9.750	30.000					
6 MF ((1)									
685-6RIU	6906					• • • • •	• • •		
686-GRIU	6907		4.750	0.000	25.242	•			
686-GRIU 687-GRIU	6907 6 9 08		4.750 9.750	0.000 -30.000	25.242 25.242	•	•		
686-GRIU 687-GRIU 688-GRID	6907 6909		9.750 9.750 9.750	0.000 -30.000 -60.000	25.242 25.242 25.242				
686-GRID 688-GRID 689-GRID	6907 6908 6909 6910		9.750 9.750 9.750 9.750	0.000 -30.000 -60.000	25.242 25.242 25.242 25.242				
+ 686-GRIU 687-GRIU 688-GRIU - 689-GRIU 690-GRIU	6907 6908 6969 6910 6911		9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000	25.242 25.242 25.242 25.242 25.242				
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID	6907 6908 6969 6910 6911		9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000	25.242 25.242 25.242 25.242 25.242 025.242		· · · · · ·		-
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID	6907 6908 6909 6910 6911 6912		9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 -150.000	25.242 25.242 25.242 25.242 25.242 025.242 025.242 30.242				-
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID 693-GRID	6907 6908 6909 6910 6911 6912 6913		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 -150.000	25.242 25.242 25.242 25.242 25.242 025.242 30.242 30.242		- · · · · · · · · · · · · · · · · · · ·		-
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID 693-GRID 694-GRID	6907 6908 6909 6910 6911 6912 6913 6914		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 180.000 150.000	25.242 25.242 25.242 25.242 25.242 025.242 30.242 30.242 30.242				-
686-GRID 688-GRID 688-GRID 688-GRID 690-GRID 691-GRID 692-GRID 693-GRID 694-GRID 695-GRID	6907 6908 6969 6910 6911 6912 6913 6914 6915		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -150.000 180.000 150.000 90.000	25.242 25.242 25.242 25.242 25.242 025.242 30.242 30.242 30.242 30.242				-
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID 693-GRID 694-GRID 694-GRID 695-GRID	6907 6908 6969 6910 6911 6912 6913 6914 6915 6917		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 180.000 150.000 90.000	25.242 25.242 25.242 25.242 25.242 25.242 30.242 30.242 30.242 30.242 30.242				-
686-GRID 688-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID 693-GRID 694-GRID 695-GRID 695-GRID 695-GRID	6907 6908 6969 6910 6911 6912 6913 6914 6915 6917 6918		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 180.000 150.000 90.000 -0.000 -0.000 -0.000	25.242 25.242 25.242 25.242 25.242 25.242 30.242 30.242 30.242 30.242 30.242 30.242				
686-GRID 687-GRID 688-GRID 689-GRID 690-GRID 691-GRID 692-GRID 693-GRID 694-GRID 694-GRID 695-GRID	6907 6908 6969 6910 6911 6912 6913 6914 6915 6917		9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750 9.750	0.000 -30.000 -60.000 -90.000 -120.000 180.000 150.000 90.000	25.242 25.242 25.242 25.242 25.242 25.242 30.242 30.242 30.242 30.242 30.242 30.242 30.242				- -

CARD COUNT: 1 2 3 4 5 6 7 701- GRID 0922 9.750 -90.000 30.242 702- GRID 6923 9.750 -120.00030.242 703- GRID 6924 9.750 -150.00030.242 704- GRID 6925 9.750 180.000 35.242	8 9 10
701- GRID 0922 9.750 -90.000 30.242 702- GRIU 6923 9.750 -120.00030.242 703- GRID 6924 9.750 -150.00030.242	8 9 10
702- GRIU 6923 9.750 -120.00030.242 703- GIIU 6924 9.750 -150.00030.242	
703- 6410 6924 9.750 -150.00030.242	
104-0010 0360 71100 100100 334242	
705- GRID 6926 9.750 154.000 35.242	•
706 - GRID 6927 9.750 120.000 35.242	The second secon
707- GRID 6928 9.750 90.000 35.242	
708- GRID 6929 9.750 60.000 35.242	•
709- GRID 6930 9.750 30.000 35.242	managa and a same and a
710- GRID 6931 9.750 0.000 35.242	
711 - GR15 9932 9.750 -30.000 35.242	
712- GRID 6933 9.750 -60.000 35.242	
713- GRID 6934 9.750 -90.000 35.242	
714 - GRID 6935 9-750 -120.00035.242	
715 - 6415 6930 9.750 -1.00.00035.242	
710- GRID 0937 9.750 180.000 40.242	•
71/- 68116 6938 92750 150200 40242	
718 - GRID 6939 9.750 120.000 40.242	· · · · · · · · · · · · · · · · · · ·
719- GRID 6940 9.750 90.000 40.242	
720- GRID 6941 9.750 60.000 40.242	
721 - GRID 6942 9.750 30.000 40.242	
722- GRID 6943 9.750 0.000 40.242	
723- URID 0944 9-750 -30-000 40-242	•
724 - GRID 6945 9.750 -60.000 40.242	***************************************
725 - GRTD 6946 4.750 -90.000 40.242	
720- GRID 6947 9.750 -120.00040.242	
727- 6818 6948 4.750 -150.00040.242	
1728- GRLD 7001 11-750 180-000 44-500	
729- GRID 7002 7.560 180.000 44.500	
730- GRID 7003 5.370 180.000 44.500	and a compared to the second
1731- GRID 7004 3.180 180.000 44.500	
732- GRID 7005 9.750 150.000 44.500	
733- 6410 7006 7.560 150.000 44.500	
734- 6813 7307 5.370 150.000 44.500	
735- GRID 7008 7-180 1:00:000 49:500	
736- GRID 7009 4.750 120.000 44.500	,
737- GRID 7010 7.560 120.000 44.500	•
738- GR13 7011 5.370 120.000 44.500	
739- (#1) /012 3.180 120.000 44.500	
* 740- GKID 7013 4.750 90.000 44.500	
741- 6810 7014 7.360 90.000 14.500	
742- GRID 7015 5.370 90.000 44.500	the second secon
• 743- GRID 7016 3.180 90.000 44.500	
744 - GRIO 7017 9.750 60.000 44.500	
745- GRID 7018 7.560 60.000 44.500	
746- GRID 7619 5.370 60.000 44.000	
797- 681) 7020 3.180 60.000 44.500	•
748- GRID 7021 1.750 30.000 44.500	to the second statement of the second
749- GRID 7022 7.560 30.000 44.500	
750- GRID 7023 3.370 30.000 44.500	•

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•	SORTED BULK DATA ECHU
CARU	
COUNT . 1 ?	3 4 5 6 7 8 9 10
751- GRID 7024	3.180 30.000 44.500
• 752- GHIQ 7025	9.750 0.0 44.500
753- GRID 7920	7.560 0.0 44.500
754- Git10 7027	5.370 0.0 44.500
· /55- 6815 /028	J.160 0.0 44.500
756- GRID 7029	9.750 -30.000 44.500
757- GRID 7029	7.560 -30.000 44.500
758- GRID 7030	5.370 -30.000 44.500
759- GRIO 7032	3.180 -30.000 44.500
760- GRID 7033	
	· · · · · · · · · · · · · · · · · · ·
761- 6810 7034 762- 6810 7035	7.569 -00.000 44.500
and the second of the second o	5.370 -60.000 44.500
763- GRID 7036	3,180 -60.000 44.500
• 764- GRID 7037	9.750 -90.000 44.500
765- GRID 7038	7.560 -90.000 44.500
760- Gd Lu 70.39	5.370 -40.000 44.500
· 707- GRID 7040	3.180 -90.000 44.500
768- GRID 7041	9.750 -120.00044.500
769- GRID 7042	7.560 -120.00044.500
770- GRID 7043	5.370 -120.00044.500
771 - Gillo 7044	3-180 -120-00044-500
772- GRID 7045	9.750 -150.00044.500
773- UHIV 7096	7.560 -150.00044.500
774- GRID 7047	5.370 -150.00044.500
775- GRID 7048	3.180 -150.00044.500
776- GKIL 7049	9.750 180.000 56.777
777- Gidlo 7050	7.560 180.000 56.777
778- GAID 7051	5.370 180.000 56.777
779- GRID 7052	3.180 180.000 56.777
780- GRID 7053	9.750 150.000 56.777
781- GRID 7054	7.560 150.000 56.777
782- GRID 7055	5.370 150.000 56.777
783- GRTD 7056	3-180 150-000 56-777
784- GRID 7057	7.750 120.000 56.777
785- GRID 7058	7.560 126.000 56.777
786- GHIU 7059	5.370 120.000 56.777
787- GRID 7060	J.180 120.000 56.777 ,
708- GRID 7061	9.750 90.000 56.777
785- GRID 7002	7.560 90.000 50.777
790- GRID 7063	5.370 90.000 56.777
791- GRID 7064	2.160 90.000 50.777
792- GRIU 7005	9.750 60.000 56.777
793- GRID 7006	7.560 60.000 56.777
794- 6810 7067	5.370 60.000 50.777
795- Gill 7008	3.180 60.000 56.777
796- GRID 7009	**750 50*000 50*777
	7.560 30.000 56.777
793- GRID 7071	5.370 30.000 56.777
745- GRID 7071	
	•
800- GHID 7073	9.750 0.0 56.777

		SUBTL	D 3 U	LK DA	1 1 4	LCI	: :+		
LAKU									
COUNT . 1	2	3 4	•• 5	6	(.1	44 .	- 10
801- GRID	7074	7.560	0.0	56.777		•			
802- GR10	7015	_370 مدا	0.0	5617.7					
803- GK10	7076	3.180	0.0	36.777					
804- GELD	7077	y.750	-30 .0 0	0 56.777					
805 - GRID	1078	7.560	00	0.56.277				· *** · · · · · · · · · · · · · · · · ·	
806- GRID	7079	5.370	-30.00	0 56.777	•	•			•
807- GRID	7080	3.180	-30.00	0 50.777					
608- crid	7081	9-750	-60.00	0.50.777		<u></u>			
809- GK10	1082	7.560	-60.00	0 56.777	•				
810- GHID	1083	5.370	-60.00	0 56.777		•			
811 - GR10	7039	3.180	-60.00	0 50.777					
812- GRID	7085	9.750	-90.00	0 56.777					•
813- GRIU	7086	7.560	-50.00	0 56.777					
814- GHID	7087	5-370	-90.00	0.56.777				•	
815-GRID	70 <i>5</i> 8	3.180	-90.00	0 56.777					
816 - GRID	7089	4.750	-120.0	0056.777					
£17- 63ID	7099	2-260	-120.0	10020.777	-,				
818- GRID	7041	5.370	-120.0	0056.777					
819- GR I D	7092	3.180	-120.0	0056.777					
820- GRID	7093	9.750	-150.0	0.050.4.777				.	
621 = 6RID	7094	7.560	-156.0	0056-177					
822+ Gr Lo	1 055	5.370	-450.0	0056 .777					
823-GKIL	7096	3-180	-1-4-0	0056-277					
1824- GHIU	7097	9.750	180.00	0 69.053					
825 - GR (D	7098	7.560	180.00	0 69.053			•		
826- GR 10	7099.	5-370	180.00	0.69.053					
• 827- GR1D	7100	3.180	180.00	0 69.053					
828- GETD	/101	4.750	150.00	0 69.053					
829-Galb	<u> </u>	7.560	150.00	حجم وع وا		<u>_</u>			
830-GR10	71 03	5.370	150.00	0 69.053					
831 - GRIU	7104	3.180	150.00	620.053					
832- GK10			120.00	6.69.053				2	
832ー いおまり	7166	7.500	180.00	nt 69.0513					
834 - GKIU	7107	5.370	120.00	0.69.053					
<u>is45= Gelle</u>			120.00	شد0ملاتا . تا		وأنجاج بتناه	·		_
· 836-6KID	/109	9.750	96.000	69.053	٠.				
837- G919	7110	7.560	90.000	69.053					
8.48 - GRID		5.370	90.000	<u>69.053</u>	ستنسأت لأأ	`	-		
· 839-GR13	7112	3-180	90.000	69.053				•	
840- GRID	/113	4.750	60.006	69.053					
<u> 541 - Uslu</u>		ــــــــ ٢٠٠٠ ـــــــــــــــــــــــــ	00_000	64.053					
842- GKID	7115	5.370	60.000	64.053					
843- GR I D	7116 .	3-180	60.000	69.053		•			
844-WILL		9-750	30.000	69.053					
845-GH16	7118	7.560	30.000	69.053				•	
846-UK10	7119	5 • 37 Ú	30.000	69.053	•.				
847- Uslu	1120	3.130	30.000	60.053		·	بالمستهد		
. 848- GRID	7121	9.750	0.0	69.053					
849-GRID	/122	7.560	0.0	69.053					
<u> </u>		5.370_	0.0	<u>69_053</u> .		• • -			

5	0 4 7 6 1	D aULK	D 4 1 4	ь есно	
COUNT . 1 2 3	• • 4	5	6	7 •• 8	4 10
• 851- GRID 7124	J. 180	0.0 69	• Ü53		
852-GHID	9.750_	-30.000 64	.053		
853- GRID 7126	7.560	-30.000 69	053		
8_4- Gala 7127	5.370	-30.000 69	. U '> 3		
<u>695- 6910 7128</u>	1.180	-30.000 69	0.53		
856 - GRID 7129	9.750	-60.000 69	.053		
857- GRID /130	7.560	-60.000 69	•053	•	
<u>856-641D /131</u>	5.370_	~~~000°00°°	053	-:	
899- GRID 7132	3-180	-60.000 69			
• 860- GRID /135	4.750	-96.000 69	.053	,	
BO1- GRID 7134		-90.000 69	.0 <u>53</u> .	المرا بمستحكم والما	
862- GRID 7135 .	b. 370	-90.000 69	•053		•
• 863- GRID 7136	3.180	-90.000 69	.053		•
864- GRID 7137	4750	120.00069	.053		
865- 0410 7138	7.560	-120.00069			•
866- GRID 7139	5.370	-120.00069	053		
867- GKID 7140	3.180	-120.60669			
868- GRID 7141	9.750	-150.00069	053		•
869- GRID 7142	7.560	-150.00069	053	*	
870-GRIU 7143	5.370	-150-00069			
871- 6k10 7144	3.180	-150.00069		•	•
872-6613 7145	9.750	180.000 81			
873- GILLO 7146	7.560	180.000 81			
874- GRID 7147	5.370	180.000 81			
875- GRID 7148	3.180	180.000 81		•	
874- GRID 7149	9.750_	150.000 81			
877- GRID 7150	7.560	150.000 81			
878-6810 7151	5.370	150.000 81			
879- GRID 7152 880- GRID 7153	3.180	1:0.000 81			
881- GRID 7154	9.750	120.000 81		•	
882- GRID 7155	7.560	120.000 81			
863+ 6klu 7156	5.370 3.180	120.000 81		• •	•
884- Ga19 /157 .	9.750	120.000 H1	. 330. • 330		•
685- GKID 1158					
886 - GRIU 7159	5.370	<u>20.000</u> 18 000.09			
887- GRID /160	3.180		.330 .3 3 6	•	
886-GRID 7161	9.750	60.000 81			•
889- Gain 7162	1.560		.330		
896 GRID - /165	5.370		330		•
891- G(1) 7164	3.180	60.000 81			
892- GKID 7165	9.750		330		•
893- GHID 1166	7.566		330	•	
894- GRID 7167	5.370		330		
895- 6810 (166	3.180		330	• .	
896- Gh1 . /169	9.750		330		
897- GKID /1/0	1.500		330		
898- GRID 7171	5.370		330		•
699- GRIU 7172	3.180		330		
900- GRID 7175	9,750	-30.000 B1			•

		5 0 M 1 t	D HUL	K DA	A I A	E ()	t U,		
CARD			بوداده إنسانيسي						
CUUNT . 1	. 2	4		• 6	• •	,	8 ••	٠ ٩	10
901-6R10	7174	7.560	- 50 - 000			•			
902-GRID		5.370							•
903-6RIO	7176	.3.180	-30.000						
904 - GRI D	71 77	4.750	-60.000						
905-691		7.560	-00.000						
906-GR10	7179	5-370	-60.000						
907-6610	7130	3.180	-60.000						
908-GHID	7181	9.750				1.5	•		
905- (RIS	7182	7-560	-40.000		*				
910- GR15	71.85	5 • 370	-40.000			•			
911-6415		<u> </u>			· · · -	'			, - ×
912-GRIU 913-GRID	7185	9.750	-120.000			· · · · ·			
	7186	7-560	-120.000				_	•	•
914-GR15	7187	5.370	-120-000				- ` .	••	
915-6k1b	7188	3.180	-120.000					,	
910-6810	7185	9.750	-150.000						
917-6HID.	7190	/-560	<u>-150.000</u>		·				
918-GRID	7191	5.370	-150.000						•
919-6k10	7192	3.180	-150.000			•			
• 920-6KID 921-6KID	7193	9.750	180-000						· ·
	7144	7-560	160.000						
922-6K10	:7195	5-370	180.000						
924-661D	7197	3.180 9.750	180.000						
925-GRID	7198	7.560	150.000 150.000						•
925-GRID	7149	7.550 5.370	150.000			•			
927-GR10	1500	3.180	150.000				:		
928- Galt	1201	4.750	120.000						
929- GRID	1202		120.000_			•			
930-GR10	7203	5.370	120.000			•			
931-GRID	7204	3.180	120.000		٠.				
· 932-GRID	7205	9.750	90.000		•	;			
933-6k16	7206	7.500		93.607		• • •			• •
934-6R10	1267	5.370	90.000	93.607					
935- GRID	1208	3.180		93.607					
936-GRID	7209	9.750	•	93.607	/				
937- GRIU	7210	7.560	60.000	93.607					
938-GRID	7211	5.370		93.607				•	
939-6815	7212	3.180		93.607	******				
940-GR10	7213	9.750	30.000	43.607					
941 - GK10	1219	7.560		93.607		• . •	•		
942-GR15	7215	5.370		93.607					
943-GKID	7216	3.180		93.607	•				
. 944-6KIU		9.750	1	20002			•	•	
945- 6810	1210	7.500		93.607					
940 - GR 1 L	1219	5		93.607					
997-CRIL	1220	3.180_		93.607 93.607					
948-6813	7221	9.750	-30.000			- · ·		· • · · · ·	•
949-6810	1222	7.560	-20.000						
450-6KIV	1223	5.370_	-30.000		•				
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COUNT . 1	_							
	•• 2 ••	3 4	5	6	 7	٠. ٠.	. 9	10
.951- GRID 📑	7224	3-180	-30.000 93	-607				
952 - GRID	7225	9.750	-60.000 93	.607	 			· .
953- GR10	7226	7.560	-60.000 93	.607				·
954- GRID	7227	5.370	-00.000 93	.607				
955 - GRID	7225	3.180	-60.000 93	.607	 			
• 956- GRID	7229	9.750	-90.000 93	.607				
. 957- 6s10	7230	7.560	-90.000 93	.607				·
958- GRID	7231	5.370	-90.000 9.3					
. 959- GRID	1232	.1.180	-90.000 93	.607		• •		
900- GKID	1233	4.750	-120.00093	.607		•		
961 - CRID	7234	7.560	-120.00093	.69.7				
. 962- GH10	7235	370	-120.00093	.007				
963- CHID.	7236	3.180	-120.00093	-607				
964-6310	7237	9.750	-150-00053	.697				
965- GRID	7238	7.560						
966- 6810	7239	5.370						
967- URID	7240	J.180						
968- GRID	7241	9.750			 			
969- 6819	7242	7.560						•
970- GRID	1243	5.370						
971- 6813	7244	3.180			 			
972- GHIU	1245	4.750						
973 - 6×10	1246	7.500	•					
974- GRID	7247	5.370			 			
975- GRID	7248	3.180						
976- GRID	7249	9.750		*-				
977 - GRID	7250	7.560			 			
978- GRID	1251	5.370						
979 - GRID	7252	3.180					٠.	
980- 681D	1253	9.750		5.883	 – – -			
981 - GRID	7254	7.560		5.863				
982 - GRID	7255	5.370				•		,
903- Chil	Test	3.180		9990.2. 5-863	 	*		
464- GK12	1237	. 750		5.883				
965 - GRID	7258	7,560						
986- GRID	7259	5.370		5.683	 •		•	
957- GRID	7260	3.180		5.883				
988 - GRID	7261	2.750						
989- 6415	7262	/•:>60		२. ०.७ .०.० ५.०.८⊬उ	 			•
990- 6410	7267 7263	4.370		5∗663 5∗883				
990- CKID								
992- GR10	1264		<u> </u>	-				
	7265	9.750		f • 88.5				
993- GRID	7266	7.560		: • Bb5				
994-7681D	7267	* • 370		5.483 6.48				
995- 6910	726H	3.180		5 • 13h . 1		•		
996 GR15	1209	4.750	-30.000 10					
997 - Gilly		(60						
998- GHID	7271	5.370	-30.000 10					
999- GRID	7212	3.180	-30.000 10	D-885				
. 1000- GRID	72/3.	4.750	60.000 10					

. LARD			5 0 0 1 6	D BUL	K DAI		C it			
COUNT . I	•• 2	••.	3 4	5	. 6	7	••	8 · •		10
1001- 6410	1214		7.560	-60.000	100.683					
. 1002-UKIU	12.15		. 5.370	-60-000	105.4883				•	
1003- Ge10	1276.		3.180	-60.000	105.883					
1004- 6610	1277		9.750	-90.000	105.883					
1005- 65(0	1216		7.560	0-000	880 - 201					
1006- GR Liz	1214		5.370	-90.000	105.883					•
1007- GRID	7280		3.180	-90.000	105.883				•	
1005-GRIA	1231		5.750	-120.0ù	0105.883					
1009-0610	1202		7.560	-120.000	0105.883					
1016- GRID	7283		5.370	-120.000	0105.HB3		. *			
1011-6310	7.234.			-120.000	01.05-883		٠.			
1012-6410	7285	•	4.750	-150.000	0105 _e 883					
1013- GRIV	7286		7.560	-150.000	1105.883	100				•
1014-61110	. 1207		5.370	150.000	C88.4010					
1015- Gittle	128B -		3.180		1105.883					
1016-6810	7289		7.750	180.000	118.160	٠.				
1017-1111	1250				118-160		2	*		•
1018- GRID	7291		5.370		118.160					
1019- GRID	7292		3 - 1.60		118-160				:	4 - 1
1020- GRIU	1243		9.750	•	160					
1021- 0810	1254		7.560		118-100					
1022- me10	7295		5.370		118-160					
1023- WILL	1240		3-160		118.160					
1024- GRID.	7297		9.750		118.160					
1025- GRID	7298		7.560		118-160		• .			+ 25
1020-6810	7249		5.3ZQ			·				
1027-0410	7300		3.180		118.160					
1028- 6810	7301		4.750	90.000	118.160					
1024-UKIL	/302		1.500	90.000	118.160					
1030- 0810	7303	`	5.370		118-160					
1031- GRID	7.14		3.180		118.160					: '
1032=6810	Z305		. 5. 4. 650			1.0			· · ·	
1033- 0610	/300		7.560	60.000	118.100				,.	• •
1034- 0610	7367		9.370	00.000	118.460					
1039-5810					ila.iou.	•				
1036-CRIU	7304		9.750	30.000	118.160	.,				,
1037- GRID	7310		7.560	30.000	118.160					
103E-CKID		,	5.370±	· -	118.100					
1039- GKIU	7312			30.000	115.160		-		•	
1040-6210	/313		2.750	. 9.0.						
1040-0670 1041-081					118.160		•			
1042 - GKID			:_ 7.560. 5.370	0.0	.412.460.		'		-	
1042 - GRID 1043 - GRID	7315		and the second second		118.160	•		•		
1043- GRID			3.180	-30 00 <i>6</i>	118.160					
1045- Gr Ib	7.31.7 7.318		2.750							
1045 - Galb			760	30.000						
1047- 0417	7319		. 1.4.370	-30.000						
	1.26.6			-30-000		· · · · -				
1048-6R10	7321		9.750	-60.000						
1049- GRID	1322	•	7.560	-60.000						
1050- GHIU	7.323		5.370	<u>-00.000</u>	_118.160:_	المأت سساعية		عسمت والمسادية		

			S 0	11 T E	b 6 U	<u>s.</u> K. 10 (A 1 4	E C H O		
	LARD:			- · 						
•	COUNT . I	•• 2	•• 3	4	•• 5	•• 0	7	•• 8	• • •	10 .
	· 1051-GRID	7324		3.180		0 115.16				
	-1052 <u>GRID</u>	732 <u>5</u>		9. 750.		0 118-10				
	. 1053 G(1)	7326		1.500	-90.00	0 118.16	O			
	/ 1054+GRIP	1327		5.370	-90.00	0 115.10	C			
	. 1055-GKU	1360		3.186	-40.00	<u> U 115.16</u>	<u>u</u>			•
	· 1056-GRID	7329		%-750	-150.0	00118-16	0			
•	. 1057-GRID	30د7		7.560	-120.0	40118-16	o			
	· 1058-651D	ــــــــــــــــــــــــــــــــــــــ		ـــ3.7.0	-120.0	00118-16	O			
	· 1059-6810	7332		3.180	-120.0	00118.16	O			
	• 1060- GRID	7333		9.750	-1 +0 +0	00118.16	ΰ			
	· 1061 - GRID	4334	·		٥. ورند السال	00118-16	Q			
	· 1062-6k16	7535		5.370	-150.0	0011H-16	v	٠.		
	* 1063-GKLO	1336		3.180	-150.0	00118-16	O .	,		,
	· 1064-64112	81.39	696	99 • 98	19.41	073.9071	100	456		
	1065- MAIL	100	1.0567		• 3	- i				
	1066-MAT I	1000	25.063		• 45	.0615		*	.52	
	1067-MPC	2	6907		1.0	8134	<u>. l</u>	-1.0		
	1068-MPC	2	6907	5	1.0	6907	3	6428	34	TM7009M3
	1069- 6M6907M	T ·	81.14	3	-6428	34		•		
	1070-MPC	2	6907	_6	10	6907	2	_e642834	a	LM6907MZ
	1071-6469074		8134	2	6426	34				
	1072-PARAM	GROPSE	O				•			
	10/J-PAKAM	LECURY	1						. , .	
	1074 - PARAM	TPHAME	SRMPTE					•		
	1075 - PARAM	WIMASS	• 0 0 2546							•
	1070-PbAR	óu		-127	.0/1					
	1077- PBAK	1.07	100	.254	. 142					•
•	1078- PBAR	i ua	100	1.060	-074					
	1079-Page	109	1.20	240	15					
	1080-P0UAD2	100	100	.1875						
	1081-PUUAU2	400	100	.040		•				
	1082-PUUAD2	401	100	.054						
	1083-PHUAD2	402	100	.058						
	1064 - PQUAD2	403	100	.230				-		
	1085-P0UAD2	404	100	-1.35						
	1086- PUUAD2	405	100	.096						
•	1087-SPC1	3	456	7002	7003	7004	7006	7007	7008	
	1088-SPC1	1	456	7010	7011	7012	7014	7015	7016	
	1089-5PC1	1	456	7018	7019	7020	1055	7023	1024	
	1090- SPC1	i	456	7026	7927	7028	1030		7072	
	1091~5PC1	ī	450	1934		1036	7038	7034	7040	
	1092- SPC1	<u> </u>	456	7042	7043	7044	7046	7047	7048	
	1092-5001	j	456	7050	7051	7052	7054	/05ti	7056	
	1093-5001	í	456	7058	7059		7062	7063	70.50	
	1095-5PC1		456	7056_	7067	 8a01	7070	7083 7071	7072	
		1	456	7074	7075	7076	7078	7074	7077	
	1096-5261									
	1097-5PC1		450	7082	7063	7084	7000	7087	79 <u>85</u>	•
	1098-5PC1	1	456	7090	7091	7092	7094	70955	70%	
	1099-5PC1	1	456	7098	7099	7100	71 C2	7103	7104	

7106 7107 7108

	:,	0 8 1 L	D B O	L K D	ATA	ECHU		
CARD								
COUNT - 1	2 •• 3	7114	** 5	• • •	•• /	•• 8	** 4	•• 10
-			7115	7116	7118	7119	7120	
1102-5PC1 1	<u> 456</u>	7122	7123_	7124	7126	7127	/128	
1103- SPCT 1	456	/130	7131	7132	71.34	7135	7136	
1104- SPC1 1	456	7138	7139	7140	7142	7143	7144	
1105- SPC1 1	456	7146		71 48	_ /150 _	7151	7.1.52	
1106-5PC1 1	456	7154	7155	7156	7158	7159	7160	
1107- SPC1 1	456	7162	7163	7164	7166	7167	7168	
1108- SPCI 1	456	7170	71.71	71.72	71 74	71.75	71.76	
1109~ SPC1 1	456	7178	7179	7180	71.82	7183	7184	
1110- seci 1	456	7186	7187	7188	71.90	7491	7142	
1111- SPC1 1	456	7144	7195	7196	7198	7199	7200	
1112- SPC1 1	456	7202	7203	7204	7206	7207	72.08	
1113- SPC1 1	456	7210	7211	7212	7214	7215	7216	
1114- SPC1 1	456	7218	7219	7220	7222	7223	7224	
1115 SPC1 1	456	7226	1227	1228	7230	7231	7232	
1116- SPC1 1	456	7234	7235	7236	7238	7234	7240	
1117- SPC1 1	4.56	1242.	7293	7294	.7296	1647	7248	
1118-SPC1 1	456	7250	7251	7252	7254	7255	7256	
1119- SPC1 1	456	7258	7259	7260	7262	7263	7264	,
1120- SPC1 1	456	7266	7207	7268	7270	7271	1272	
1121- SPC1)	456	7274	7275	7276	72.78	7274	7280	
1122- SPC1 1	456	7282	1283	7284	7280	7287	7288	
1123- SPC1 1	456	7290	7291		72:29	7295	. 7296	
1124- SPC1 1	456	7298	7299	7300	7302	7303	7304	
1125- SPC1 1	456	7306	7307	1308	7310	7311	7318	
1126- SPC1 1	456_	/314	7315	7316	. 7318.	1319	/320	•
1127- SPC1 1	456	7322	7323	7324	7326	7327	7328	
1128- SPC1 1	456	7330	7.331	7.532	7334	7.3.35	7336	
1129- SPET 1		733 0 730 1	2	733 <i>r</i> 7313	2		2	
CNODATA			···					

SOLID ROCKET BOOSTER COPY RUN Z701232

NASTRAN EXECUTIVE CONTROL DECK ECHO

ID TAPE COPYSRM

APP DMAP
DIAG 14
TIME 4

BEGIN & DMAP TO CHECK AND CONSOLIDATE SUBSTPUCTURE PHASE 1 SRM TAPES
(SEE NASTRAN SOURCE PROGRAM COMPILATION FOR LISTING OF DMAP SEQUENCE)
END
CEND

								•					•			
TAPE COPY	SPM															
		· 														
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سترمض ديندا المبينا المستنهد			-	, , c	A S	E	Ċ	$0^{T}\mathbf{N}$	TF	n l	L	D	FC	K	E	СН
•	CARD COUNT				•											
	1 2	TITLE	BULK	COPY	SPM	• .		,								
	·-										•					
*** USEP INFOR	MATION ME	SSAGE	207. BULI	K DAT	A NO	OT SC	DRTE	D•X	SORT	. AI	LL F	PE-	ORDE	E R	DE CH	٠.
*** USER INFOR	MATION ME	SSAGE	297. BULI	K DAT	A NO	OT SC)RTE	D•X	SORT	. AI	LL F	PE-	ORDE	ER	DE C	ς.
*** USER INFOR	MATION ME	ESSAGE	297. BULI	K DAT	A NO	OT SO	PTE	ED•X	SORT	. WI	LL F	₽ E - I	ORDE	ER	DE C	₹•
*** USEP INFOR	MATION ME	ESSAGE	297. BULI	K DAT	A NO	OT SC	DRTE	D•X	SORT	ΨI	LL F	₽ E - 1	ORDE	ER	DE C	
*** USEP INFOR	MATION ME	ESSAGE	297, BULI	K DAT	A NO	OT SO	PTE	ED•X	SORT	WI.	LL F	9 E - 1	ORDE	Ē₽	DE C	< •
*** USEP INFOR	MATION ME	ESSAGE	297, BULI	K DAT	A NO	OT SO	PTE	ED+XS	SORT	WI	LL F	₽ E - 1	ORDS	≘ R	DE C	

	2 CPSRMA 172 181 193 199 211 220 229 241 247 259 268 277 295 307	3 0 1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	168 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 .0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	6 2 169 175 187 196 205 217 223 235 244 253	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	ESPMAN ESPMAN ESPMAN ESPMAN ESPMAN ESPMAN ESPMAN ESPMAN
1 DMT 2 DMT 3 ESRMA1 4 ESPMA2 5 ESPMA3 5 ESPMA4 7 ESRMA6 9 ESPMA7 10 ESRMA8 11 ESRMA9 12 ESRMA10 13 ESPMA11 14 ESPMA12 15 ESPMA14 17 ESPMA14 17 ESPMA15 18 ESPMA16 19 ESPMA17 20 ESPMA17	CPSR MA CPSR MA 172 181 193 211 220 229 241 247 256 277 289 295	0 1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	168 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 •0 1•0 1•0 1•0 1•0 1•0 1•0 1•0	2 169 175 187 196 205 217 223 235 244 253	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 1.0 1.0 1.0 1.0 1.0 1.0	ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR
3 6 SRMA1 4 6 SPMA2 5 6 SPMA3 5 6 SPMA4 7 6 SPMA5 8 6 SPMA6 9 6 SPMA7 10 6 SPMA1 11 6 SPMA1 14 6 SPMA1 14 6 SPMA1 15 6 SPMA1 16 6 SPMA1 17 6 SPMA1 18 6 SPMA1 18 6 SPMA1 19 6 SPMA1	172 181 193 199 211 220 229 241 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	175 187 196 205 217 223 235 244 253	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR ESPMAR
4 6 SPMA2 5 6 SPMA3 5 6 SPMA4 7 6 SPMA5 A 6 SPMA6 9 6 SPMA7 10 6 SPMA8 11 6 SPMA1 14 6 SPMA1 14 6 SPMA1 15 6 SPMA1 16 6 SPMA1 17 6 SPMA1 18 6 SPMA1 18 6 SPMA1 19 6 SPMA1 19 6 SPMA1 17 6 SPMA1 17 6 SPMA1 17 6 SPMA1 18 6 SPMA1 19 6 SPMA1	181 193 199 211 220 229 241 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	187 196 205 217 223 235 244 253	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	ESPMAT ESPMAT ESPMAT ESPMAT ESPMAT ESPMAR
5 6 SPMAT 5 6 SPMAA 7 6 SPMAA 7 6 SPMAS A 6 SPMAC 9 6 SPMAT 10 6 SPMAR 11 6 SPMA10 13 6 SPMA11 14 6 SPMA12 15 6 SPMA13 15 6 SPMA14 17 6 SPMA15 18 6 SPMA16 19 6 SPMA17 20 6 SPMA1R	193 199 211 220 229 241 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	196 205 217 223 235 244 253	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0	ESRMA4 ESPMA5 ESPMA6 ESPMA7 ESPMA8 ESPMA8
5 65PMA4 7 65PMA5 8 65PMA6 9 65PMA7 10 65PMA8 11 65PMA10 13 65PMA11 14 65PMA12 15 65PMA13 15 65PMA14 17 65PMA15 18 65PMA16 19 65PMA17 20 65PMA18	199 211 220 229 241 247 259 266 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	205 217 223 235 244 253	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	ESPMAS ESPMAS ESPMAT ESPMAS ESPMAS
7 ESRMAS R ESRMA6 9 ESPMA7 10 ESRMA8 11 ESRMA9 12 ESRMA10 13 ESRMA11 14 ESPMA12 15 ESRMA13 15 ESRMA14 17 ESPMA15 18 ESPMA16 19 ESRMA17 20 ESRMA1R	211 220 229 241 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0	21 7 22 3 23 5 24 4 25 3	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	ESPMAR ESPMAR ESPMAR
## 65PMA6 9 65PMA7 10 65PMA7 11 65PMA9 12 65PMA10 13 65PMA11 14 65PMA12 15 65PMA13 15 65PMA14 17 65PMA15 18 65PMA16 19 65PMA17 20 65PMA18	220 229 241 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	223 235 244 253	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	£ SPMA7 £ SPMAR £ SPMAG
9 65PMA7 10 65RMA8 11 65RMA9 12 65RMA10 13 65PMA11 14 65PMA12 15 65PMA13 15 65PMA14 17 65PMA15 18 65PMA16 19 65PMA17 20 65PMA18	229 241. 247 259 268 277 289 295	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	235 244 253	1.0 1.0	1 • n 1 • 0	1.0	ESPMAR ESPMAR
10 ESRMAR 11 ESRMA9 12 ESRMA10 13 ESRMA11 14 ESRMA12 15 ESRMA13 15 ESRMA14 17 ESRMA15 18 ESRMA15 18 ESRMA17 20 ESRMA1R	241 . 247 259 266 277 289 295 307	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0	1.0	24.4 25.3	1.0	1.9	1.0	SSPMAG
11 ESRMA9 12 ESRMA10 13 ESRMA11 14 ESRMA12 15 ESRMA13 16 ESRMA14 17 ESRMA15 18 ESRMA15 18 ESRMA16 19 ESRMA17 27 ESRMA18	247 259 268 277 289 295 307	1.0 1.0 1.0 1.0	1.0	1.0	253				
12 65RMA10 13 65RMA11 14 65RMA12 15 65RMA13 15 65RMA14 17 65RMA15 18 65RMA16 19 65RMA17 22 65RMA18	259 268 277 289 295 307	1.0 1.0 1.0	1.0 1.0	1.0		1.0	1.0		*****
13 6SPMA11 14 6SPMA12 15 6SPMA13 15 6SPMA14 17 6SPMA15 18 6SPMA16 19 6SPMA17 22 6SPMA18	268 277 289 295 307	1.0 1.0 1.0	1.0				3. 10.77	1.0	- ESPMAIN
14 6SPMA12 15 6SPMA13 15 6SPMA14 17 6SPMA15 18 6SPMA16 19 6SPMA17 22 6SPMA18	277 289 295 307	1.0		1.0	.265	1.0	1.0	1.0	ESPMA11
15 65RMA13 16 65PMA14 17 65PMA15 18 65PMA16 19 65RMA17 22 65RMA18	289 295 307	1.0	1.0	1.00	271	1.0	1.0	1.0	ESPMA12
15 CSPMA14 17 CSPMA15 18 CSPMA16 19 CSPMA17 22 CSPMA18	295 307			1.0	283	1.0	1.0	1.0	FIAMORS
17 65PMA15 18 65PMA16 19 65PMA17 20 65PMA18	307		1.0	1.0	292	1.0	1.0	1.0	ESEMA14
18 65PMA16 19 65PMA17 23 65PMA18		1.0	1.0	1.0	301	1.0	1.0	1.0	ESPMA15
19 65RMA17	316	1.0	1.0	1.0	313	1.0	i.0	1.0	ESPMA16
20 ESPHATA		1.0	1.0	1.0	319	1.0	1.0	1.0	ESPMAT7
•	325	1.0	1.0	1.0	331	1.0	1.0	1.0	ESPMAIA
•	337	1.0	1.0	1.0	340	1.0	1.0	1.0	- ESPMATO
	343	1.2	1.0	1.0	34.9	1.0	. 1.0	1.0	6 SPMA20
22 ESRMA20	355	1.0	1.0	1.0	361	1.9	1.0	1.0	ESFMA21
23 65RMA21	364	1.0	1.0	1.0	367	1.0	1.0	1.0	6 SPMA22
24 65PMA22	373	1.0	1.0	1.0	379	1.0	1.0	1.0	ESRMAZE
25 65PMA23	385	1.0	1.0	1.0	388	1.0	. 1.0	1.0	6 SPMA24
26 65RMA24	391	1.0	1.0	. 1.0	397	. 1.0	1.0	1.0	ESPMA25
27 ESPMARS	403	1.0	1.0	1.0	409	1.0	1.0	1.0	ESRMA26
28 ESPMAZ6	412	. 1 • 0	1.0	1.0	415	1.0	1.0	1.0	&SRMA27
29 65PMA27	421	1.0	1.0	1.0	427	1.0	1.0	1.0	SSPMA28
30 65RMA28	433	1.0	1.0	1.0	436	1.0	1.0	1.0	ESPMA29
31 65RMA29	439	1.0	1.0	1.0	445	1.0	1.0	1.0	65RMA30
32 6SPMA30	451	1.0	1.0	1.0	457	1.0	1.0	1.0	ESFMA31
33 ESPMA31	463	10	1.0	1.0	469	1.0	••0	1.0	SEAMA32
SEAMARS AF	475	1.0	1.0	t.0	481	1.0	1 • ,0	1.0	ESPMA33
35 ESPMA33	487	1.0	1.0	1.0	493	1.0	11.0	1 • 0	FSPMA34
35 ESFMARA	499	1.0	1.0	1.0	505	1.0	1.0	1.0	ESPMARS
37 ESPMASS	51 t	1.0	1.9	1.0	51.7	1.0	1.0	. 1.0	ESPMARS
38 ESPMA36	523	1.0	1.0	1.0	529	1.7	1 - 2	. 1.0	ESPMART
39 ESPMA37	535	1.0	1.0	1.0	541	.1 • 0	1.0	1.0	ESPMAR
40 ESPMASE	547	1.0	1.0	1.0	55.3	1.0	1.0	1.0	PFAWA79
41 6 SPMA39	559	1.0	1.0	1.0	565	. 1.0	1.0	1.0	ESPMA40
42 85RMA40	571	1.0	1.0	1.0	577	1.0	1.0	1.0	6SRMA41
43 ESFMA41	583	1.0	1.0	1.0	589	1.0	i.o	1.0	ESPMA42
44 ESPMA42	595	1.0	1.0	1.0	60 1	1.0	1.0	1.0	ESPMA43
45 ESFMA43	607	1.0	1.7	1.0	61:3	1.0	1.0	1.0	FSPMA44
45 ESPMA44	619	1.0	1.0	1.0	625	1.0	1.0	1.0	ESPMA45
47 ESPMA45	631	1.0	1.9	1.0	637	1.0	1.0	1.0	ESPMA46
- 48 ESPMAAK	643	1.0	1.0	1.0	400	. 1 . ^	1 ^		
49 ESPMA47	661	1.0	1.0		655	1.0	1 - 0	1.0	ESPMAA7

	,		5 0 R	T E	D. BU	LK D	ATA	еснп		
CARD			·· ·· ·			_ ,				
_ COUNT	• 1	2	3	4	5	6	7	•• В	9	10 .
51	DMI	CPSRMF 1	1		1.0	1.0	1.0	• 0	. 0	ESPMET
52	ESPMFI	7	1.0	1.0	1.0	13	0.0	1.0	1.0	ESPME2
53	&SPMF2	19	1.0	1.0	1.0	25	1.0	1.0	1.0	ESPME3
54	6 SPMF3	71	1.0	1.0	1.0	37	1.0	1.0	1.0	ESPME4
55	ESPMF4	43	1.0	1.0	1.0	49	1.0	1.0	1.0	ESPME5
56	ESRMF5	5 5	1.0	1.0	1.0	61	1.0	1.0	1.0	6SRMF5
57	ESPME6	67	1.0	1.0	1.0	. 73	1.0	1.0	1.0	GSRME7 .
59	6SRMF7	. 79	1.0	1.0	1.0	85	1.0	.1.0	1.0	ESPME 8
59	ESPMER	91	1.0	1.9	1.0	97	1.0	1.0	1.0	ESPHEO
59	ESPMF9	103	1.0	1.0	1.0	109	1.0	1.0	1.0	ESPMF10
61	&SPMF1	0 115	1.0	1.0	1.0	121	1.0	1.0	1.0	ESRMF11
62	ESPMF1	1 127	1.0	1.0	1.0	133	1.0	1.0	1.0	ESPMF12
63-	ESPMF1	2 139	1.0	1.0	1.0	145	1.0	1.0	1.0	ESPMF13
64	6SPMF1	3 151	1.0	1.0	1.0	157	1.0	1.0	1.0	ESPMF14
45	6 SPMF1	4 163	1.0	1.0	1.0	169	1.0	1.0	1.0	ESPME15
66	ESPMF1	5 172	1.0	1.0	. 1.0	175	11.0	1.0	1.0	. ESPME16
67	ESPMFI	6 181	1.0	1.0	1.0	187	1.0	1.0	1.0	ESPMF17
58	6SRMF1	7 103	1.0	1.0	1.0	196	1.0	" 1.0	1.0	6SPMF18
69	ESPMET	8 199	1.0	1.0	1.0	205	1.0	. t.n	. 1.0	ESPMF19
70	ESPMET	9 211	1.0	1.0	1.0	217	1.0	1.0	1.0	ESPMEZO
71	6 SRMF2	0 550	1.9	1.0	1.0	22.3	1.0	1.0.	1.0	ESPMF21
72	ESPMES	1 229	1.0	1.0	1.0	235	1.0	1.0	1.0	ESPMF22
73	ESPMF2	2 241	1.0	1.0	1.0	244	1.0	1.9	1.0	ESPMF23
74 .	6SPMF2	3 247	1.0	1.0	1.0	253	1.0	1.0	1.0	ESPMF24
75	6 SRMF2	4. 259	1.0	1.0	10	265	1.0	1.0	1.0	ESRME25
76	&SRMF2	5 268	1.0	1.0	1.0	271	1.0	1.0	1.0	ESPME26
77	& SPHF2	6 277	1.0	1.0	1.0	283	1.0	1.0	1.0	ESPMF27
78	& SRME?	7 289 .	1.0	1.0	-1.0	292	1.0	1.0	1.0	&SPMF28
79	& SPMF 2	8 295	1.0	1.0	1.0	30 1	1.0	1.0	1.0	ESPME29
85	6SPMF2	9 307	1.0	1.0	1.0	313	1.0	1.0	1,.0	6SRMF30
81:	&SPMF3	0 : 316 .	1.0	1.0	1.0	319	1.0	1.0	1.0	ESPME31
82	ESPMF3	1 325	1.0	1.0	1.0	1331	1.0	1.0	1.0	ESPME 12
. 93	& SRMF3	2 337	1.0	1.0	1.0	134.0	1.0	1.0	1.0	6SRMF33
84-	&SPMF3	3 34.3	1.0	1.0	1.0	349	1.0	1.0	1.0	RSFMF34
95	6SRMF3	4 355	1.0	1.0	1.0	361	1.0	1.0	1.0	ESPME35
85	ESPMF3	5 364	1.0	1.7	-1.0	367	. 1.0	1.0	1.0	ESRME 36
87	6SPMF3	5 373	1.0	1.0	1.0	. 379	1.0	1.0	1.0	65RMF37
99	ESPMF3	7 385	1.0	1.0	1.0	388	. 1.0	1.0	1.0	ESPME38
93	ESPME3	8 391	1.0	1.7	1.0	397	1.0	1.0	.1.0	ESPME 30
90	ESPMF3	9 403	1.0	1.0	1.0	409	19	. 1.0	1.0	ESPME40
91	& SRMF4	0 412	1.0	1.0	1.0	415	1.0	1.0	1.0	ESPMF41
92	ESRMF4	1 421	1 -0	1.0	1.0	427	1.0	1.0	1.0	ESPMF42
93	ESRMF4	2 433	1.0	1.0	1.0	436	1.0	11.0	1.0	6SPMF43
94	&SRMF4	3 439	1.0	1.0	1.0	445	1.0	1.0	1.0	ESPMF44
95	ESPMF4	4 451	1.0	1.0	. 1 • 0.	649	1.0	1.0	1.0	
	ENDDAT	A .								

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SOLID ROCKET BOOSTER COMBINED MODEL PHASE II PT. 1 212 DEGREES OF FREEDOM 2700234

NASTRANI EXECULTVE CONTROL DECK ECHO

```
ID PHASES SRMRI
APP
        DISP
CHKPNT
         YES
 TIME
         15
         7.0
SUL
DIAG 7.8.13.14.19.21.22
ALTER 2.28 PARAMETER DEFAULTS
PARAM
         //C.N.NOP/Y.Y.NOSUB= 0
         //C+N+NOP/V+Y+TPCOPY=-1
PARAM
PARAM
         //C+N+NUP/V+Y+SURGK=-1
         //C.N.NUP/V.Y.SUBK4#-1
PARAM
         //C+N+NOP/V+Y+SUBB=-1
PARAM
         //C.N.NOP/V.N.TRUE=-1
PARAM
ALTER 25.27
CHKPNT
         EST-GE1-ECPT-GPCT
         //C.N.SUB/V.N.COUPLE/V.Y.NOSUB/C.N.1
PARAM
         //C.N.NOP/V.N.NOK4GG#-1
PARAM
         KGGX.K4GG.GPST.OGPST/NOSIMP
PURGE
CHKPNT
         KGGX.K4GG.GPST.OGPST
COND
         L30.NOSIMP
         L25A . GENEL
COND
COND
         L25B.COUPLE
         L25A
LADEL
PURGE
         DGPST/TRUE
CHKPNT
         DGPST
LABEL
         L25B
ALTER 30.31
CHKPNT
         KGGX.K4GG.GPST
LABEL
        L30
ALTER 34.35
PARAM
         //C.N.AND/V.N.NOBG/V.N.NOBGG/V.Y.SUBB
         //C.N.AND/V.N.NORK4/V.Y.SUBGK/V.Y.SUBK4
PARAM
PARAM
         //C+N+AND/V+N+NOK4/V+N+NORK4/V+N+NOK4GG
         L34A.NOMGG
COND
JUMP
         L34B
LABEL
         L34A
         ERROR3.COUPLE
COND
LABEL
         L348
PURGE
         BNN . BFF . BAA . BGGY/NUHG
PURGE
         K4GGY+K4NN+K4FF+K4AA/NDK4
              BGGY . KAGGY . KANN . KAFF . KAAA . MGG . HGG . BNN . HFF . DAA
CHKPNT
ALTER 37.37
         LBL1 .NOMGG
COND
ALTER 42.42 $ IF COUPLING RUN. CUMBINES SUBSTRUCTURES.
PURGE
         CPGI-KI-MI-KGGI-MGGI-KGGS-MGGS-KGT-MGT/COUPLL
         K4GGS.K4GGT.K4GT.GTKT.K411.K41/COUPLE
PURGE
PURGE
         BI . BGGS . UCGI . HGT . OF AC . KF AC . BF AC / COUPLE
CHKPNT
         KGGS.MGGS.K4GGS.8GGS
         //C.N.NOP/V.N.CHECK=0
PARAM
```

```
COND
        LPC9.COUPLE & SKIP.NOT A COUPLING RUN
INPUTTI /..../C.N.-3/C.N.9/V.Y.TPNAME9 $ LIST TAPE & REWIND
        //C.N.NOP/V.N.PASS=1 $ INITIAL LUOP PASS PARAMETER
PARAM
PURGE
        K4GGS.K4GGI.K4GT.GIKI.K4II.K4T.GFAC.KFAC/NOFK4
        GIK1.GFAC/SUBGK/K41.KFAC/SUBK4/BGGS.BGG1.BGT.FFAC/SUBB
PUMGE
CHKPNT
        K4GGS.BGGS
JUMP
        LOOPC
        LOOPC S TOP OF LOOP
LABEL
        //C.N.SUB/V.N.PASS1/V.N.PASS/C.N.2
PARAM
INPUTTI /CPGI.KI.MI../C.N.O/C.N.9 $
CUND
       LPC1.PASS1
JUMP
        LPC3
LABEL
        LPC1 .
        ... KI .CPGI ./KGGS/C.N.-1/C.N.2/C.N.6
MERGE .
        ...MI.CPGI./MGGS/C.N.-1/C.N.2/C.N.n
MERGE .
COND
        LPC2.NURK4
        ....CPG1./K4GGS/C.N.-1/C.N.2/C.N.6
MERGE .
LABEL
        LPC2
COND
        LPC3.SUBB
MERGE .
        ....CPGT./BGGS /C.N.-1/C.N.2/C.N.6
LABEL
        LPC3
        LPC4.PASSI
COND
        ***K1*CPGT*/KGG1/C*N*-1/C*N*2/C*N**
MERGE .
MERGE .
        ***M1*CPG1*/MGGI/C*N*-1/C*N*2/C*N*6
        KGGS+KGG1/KGT $
ADD
        KGT.KGGS/TRUE
EQUIV
        MGGS+MGGI/MGT $
ADD
EQUIV
        MGT . MGGS/TRUE
        LPC4A+CHECK
COND
JUMP
        LPC4
LABEL
        LPC4A
CHKPNT
        KGGS.MGGS
LABEL
        LPC4
        LPC7.NORK4
CUND
COND
        LPC5.SUBGK
           GFAC//C.N.DMI/C.N.I/V.N.PASS/V.N.GIR &
PARAMI
PARAMR
        //C.N.EQ/C.N.O.O/C.N.O.O/V.N.GTR/V.N.OUTC/V.N.TNC1/V.N.1NC2/
        V.N.NUGI S
PURGE
        GIKI/NOGI
COND
        LPC5.NGGT
PARAME
        //C.N.COMPLEX/C.N.O.U/V.N.GTR/C.N.O.O/V.N.GT 5
ADD
        KI./GIKI/V.N.GI. $
LABEL
        LPC5
COND LPC6 SUBK4
          KFAC//C.N.DMI/C.N.I/V.N.PASS/V.N.K4P 4
PARAML
PARAMK
        //C+N+EU/C+N+0+0/C+N+0+0/V+N+K4R/V+N+HUTC/V+N+INC1/V+K+1NC2/
        V.N.NOK41 5
PURGE
       K41/NOK41
CUND
        LPC6.NDK41
```

INPUTT1

/K41 / C . N . O / C . N . 9 5

```
LABEL
        LPC6
ADD G1K1-K41/K411
MERGE . ... K4 II . CPG1 . / K4 GGI/C . N . - 1/C . N . 2/C . N . 6
ADD
        K4GG5.K4GG1/K4GT
       K4GT+K4GGS/TRUE
EQUIV
       LPC7A.CHECK
COND
JUMP
        LPC7
LABEL
        LPC7A
CHKPNT
        K4GGS
LABEL
       LPC7
COND
PARAML
        BFAC//C.N.DMI/C.N.1/V.N.PASS/V.N.HIR &
PARAMR
       //C.N.EO/C.N.O.O/C.N.O.O/V.N.BIR/V.N.OUTC/V.N.INC1/V.N.INC2/
  V.N.NOBI S
       LPC8A+NUB1
CUND
INPUTT1 /81.../C.N.O/C.N.S &
MERGE . .. . BI . CPGI . / BGG] / C . N . - 1 / C . N . 2 / C . N . A
        BGGS.BGG1/BGT $
        BGT BGGS/TRUE
EQUIV
LABEL LPCBA
COND
        LPC8B, CHECK
        LPC8
JUMP
LAUEL
        LPCBB
CHKPNT BGGS
LABEL
       LPC8
       //C.N.ADD/V.N.PASS/V.N.PASS/C.N.1
PARAM.
PARAM
        //C.N.SUB/V.N.SKIP2/V.Y.NOSUB/V.N.PASS
        //C+N.SUB/V+N.CHLCK/V+N.SKIP2/C+N.1
PARAM
COND
       LPC9.SKIP2
       LOOPC . 20
REPT
       LPC9
LABEL
ADD
       KGGX.KGGS/KGGY $
CHKPNT - KGGY
ADD.
        MGG,MGGS/MGGY $
CHKPNT MGGY
COND
        LPC11.NOK4
        K4GG.K4GGS/K4GGY
ADD
CHKPNT KAGGY
LABEL
       LPC 11
CUND
       EPC12.NUBG
      AUD
CHKPNT BGGY
LABEL LPC12
EQUIV KGGY . KGG/NOGENL $
ALTER 45,45
SMA3
      . GET.KGGY/KGG/V.N.LUSET/V.N.NUGENL/V.N.NOSIM#I $
ALTER 51.53
       GM/MPCF1/GQ/OM1T/KFS/S1NGLE
PURGE
        KGG.KNN/MPCF1/MGGY.MNN/MPCF1/BGGY.BNN/MPCF1/K4GGY.K4NN/MPCF1
EQUIV
CHKPNT GM.RG.GD.KFS.USET.KNN.MNN.BNN.K4NN
```

NASTRAND EXPOUNTIVE CONTROL DEGR. ECHO

```
COND ..
        L53A .NOMGG
ADD
         MGG./WGG/C.Y.ALPHA#X386.4.0.01 $
         GPL.USET.STL.WGGZZC.N.G
MATGPR
LABEL
         L53A
         L53B,COUPLE
COND
JUMP.
         LBL4
         L538
LABEL
ALTER 63.63
         USET.GM.KGG.MGGY.HGGY.K4GGY/KNN.MNN.BNN.K4NN
MCF2
ALTER 74.74 .
CUND
        L87.UMIT
ALTER 77.77
ALTER 80.81
        LELB NOBG
COND
ALTER 85.85
         L87.NUK4
CUND
ALTER 87
LABEL
        CPARL CPFDA, CPNSF CPGMN, EQR. EQL. EQA. COD. TOP . FON . EQM . LOC/REACT
PURGE
       EX.EXT.EQMT.EQNT.EQGT.EQGTC.MDGG.MOGGY/REACT
PURGE .
        KLL. KLR. KRR. LLL. ULL. DM. X. EQRT. DMT. GGT. GMT/REACT
PURGE
         LCPS . REACT & R-SET MUST BE DEFINED TO GENERATE FOR
CUND
         USET.KAA./KLL.KLR.KRR... $
RBMG1
RBMG2
         KLL/LLL JULL
         LLL.ULL.KLR.KRR/DM
RBMG3
         KLL .KLR . KRH .DM
CHKPNT
         EQR/FORT.
TRNSP
         GPL. USET . SIL . E ONT //C . N.R
MATGPR
MEYAD
         KLR.DM.KRRZXZC.N.I 4
         GPL.USET.STL.X//C.N.H.
MATGPR
         EQR.X./EX/C.N.O/C.N.1/C.N.O $
MPYAD
TRNSP
         EX/EXT
         GPL+USET+SIL+FXT//C+N+R
MATCPH
         CPFUAZOMITZCPNSEZSINGLEZCPGMNZMPCI 1
PURGE
        EQUIZOMET ZEOMZMPCET
PURGL
PURGE
        GOT/UMIT/GMT.EQMT/MPCF1
         USET/CPARL/C.N.A/C.H.R/C.N.L &
VEC.
         DM/DMT
TRNSP
         EGR.DMT./FOL/C.N.G/C.N.1/C.N.O
MPYAD
MERGE
         EQR . . EQL . . CPARL . / E DA/C . N . 1/C . N . 2/C . N . 2
        EGA . E OF / UMIT
EGUIV
COND
        LCPI.OMIT
         USET/CPFOA/C.N.F/C.N.O/C.N.A &
VEC
        CO/COT
TRNSP
MPYAD
         EQA+GOT+ZLQDZC+N+0ZC+N+1ZC+N+0
        EQU. . EQA . . CPFOA . / L UF / C. N . 1 / C . N . 2 / C . N . 2
MERGE
LABEL
         LCP1
        EQF . EQN/SINGLE
EQUIV
COND
        LCP2.SINGLE
Vt.C
         USET/CPNSF/C.N.N/C.N.S/C.N.F &
```

```
MERGE . .. EUF .. CPNSF ./ EUN/C.N.1/C.N.2/C.N.2
LABEL LCP2
      E ONZE ONT
TRNSP
MATGPR GPL.USET.SIL.EQNT//C.N.N
       EQN.EQG/MPCF1
EQULY
COND .
       LCP3.MPCF1
       USET/CPGMN/C.N.G/C.N.M/C.N.N $
VEC
TRNSP.
       GMZGMT.
MPYAD
       EQN.GMT./EQM/C.N.O/C.N.1/C.N.O
       EQM . . EQN . . CPGMN . / EQG/C . N . 1/C . N . 2/C . N . 2
MERGE
TRNSP
       E OM/EOMT
      GPL.USET.SIL.EQMT//C.N.M
MATGPR
       LCP3
LABEL
CHKPNT . CPFDA+CPNSE+CPGMN+CPARL .
CHKPNT FOG
TRNSP
       LOGZEGGE
      AUD
$ ASSUME CONVERSION OF MASS TO LBS = 386.4
PURGE
       MDGG/NDMGG/MDGGY/CHUPLE
COND
      LCP4 NUMGG
SMPYAD
       EQG.MGG.EQGTC.../MDGG/C.N.3/C.N.1/C.N.0 $
      LCP4
LABEL
                    COND
       LCP5,COUPLE
SMPYAD EQG.MGGY.EQGTC.../MGGGY/C.N.3/C.N.1/C.N.0 $
LABEL
      LCP5
MATPRN MOGG.MOGGY. . . // $
COND
     LCP8.TPCUPY
SEEMAT KAA...//C.N.PRINT
SEEMAT MAA+++//C+N+PRINT
DUTPUTI GM.GO.KFS.KAA.//C.N.-1/C.N.O/V.Y.TPNAME
OUTPUT1 MAA...// $
COND LCP7.NOK4
SEEMAT KAAA....//C.N.PRINT
DUTPUT1 K4AA....// 5
LABEL LCP7
COND LCP8.NOBG
SEEMAT BAA.../C.N.PRINT
DUTPUT1 BAA...// 5
LABEL LCP8
ALTER 89.162
ALTER 164.167
ENDALTER
CEND
```

<u>-</u>									
RESTART	ST CARD IN					•	ED OUT	FOR THIS	PROBLEM
					-, ,	· - · · ·	٠.		
		<u> </u>	· ·				·		
and the second s									

CASE CONTROL DECK ECHO

CARD		
COUNT		
1	TITLE = PHASE 2 (PART 1)	
2	SUBTITLE = SRM COUPLING RUN	
3	MAXLINES # 60000	
4	ECHO = BOTH	
5	MPC = 6050	
6	OUTPUT (PLOT)	
7	SET 1 # ALL	
	PLOTTER CALCOMP 765.105	
9	AXES = MY.X.Z	
10 .	.VIEW # 30.0.45.0.0.0	•
11:	FIND SCALE ORIGIN 1 SET 1	
12	PLOT	
13	BEGIN BULK	

INPUT BULK DATA DECK ECHO

. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 CORD2R 696 0 -81.5683 0.0 35.5985-80.2278 0.0 57.51366RSYA ERSTANK 68.25 0.0 48.432 CORD2C 100 696 74.738 -30.494 0.138 200.0 -30.494 6.138 66588 CCSSRM 74.738 0.0 0.0 CURD2R 101 696 74.738 +30.494 6.138 74.738 -28.5701 15.6963ERSSM GRID 6901 100 9.750 180.000 25.242 100 456 GRID 6904 100 9.750 90.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7013 100 9.750 180.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	A
ERSTANK 68.25 0.0 48.432 CORD2C 100 696 74.738 -30.494 6.13H 200.0 -30.494 6.13H 6C5SR ECSSRM 74.738 0.0<	A
CORD2C 100 696 74.738 -30.494 6.13H 200.0 -30.494 6.13H 6658H 6658H 74.738 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
ECSSRM 74.738 0.0 0.0 CURD2R 101 696 74.738 -30.494 6.138 74.738 -28.5701 15.6963ERSSM ERSSRM 20030.494 6.138 GRID 6901 100 9.750 180.000 25.242 100 456 GRID 6904 100 9.750 90.000 25.242 100 456 GRID 6907 100 9.750 -90.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7004 100 3.180 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
CORD2R 101 696 74.738 -30.494 6.138 74.738 -28.5701 15.6963ERSSM GRS SRM 200. -30.494 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456 6.138 7.242 100 456	1
GRSSRM 200 -30.494 6.138 GRID 6901 100 9.750 180.000 25.242 100 456 GRID 6904 100 9.750 90.000 25.242 100 456 GRID 6907 100 9.750 0.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7004 100 3.180 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 6901 100 9.750 180.000 25.242 100 456 GRID 6904 100 9.750 90.000 25.242 100 456 GRID 6907 100 9.750 0.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7004 100 3.180 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 6904 100 9.750 90.000 25.242 100 456 GRID 6907 100 9.750 0.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 6907 100 9.750 0.000 25.242 100 456 GRID 6910 100 9.750 -90.000 25.242 100 456 GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7004 100 3.180 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 7001 100 9.750 180.000 44.500 100 456 GRID 7004 100 3.180 180.000 44.500 100 456 GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 7004 100 3-180 180-000 44-500 100 456 GRID 7013 100 9-750 90-000 44-500 100 456 GRID 7016 100 3-180 90-000 44-500 100 456	
GRID 7013 100 9.750 90.000 44.500 100 456 GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 7016 100 3.180 90.000 44.500 100 456	
GRID 7025 100 9.750 0.0 44.500 100 456	
GRID 7028 100 3-180 0-0 44-500 100 456.	
GRID 7037 100 9.750 -90.000 44.500 100 456	
GRID 7040 100 3.180 -90.000 44.500 100 456	
GRID 7097 100 9.750 180.000 69.053 100 456	
GRID 7100 100 3.180 180.000 69.053 100 456	
GRID 7109 100 9.750 90.000 69.053 100 456	
CRID 7112 100 3.180 90.000 69.053 100 456	
GRID 7121 100 9.750 0.0 69.053 100 456	
GRID 7124 100 3.1HO 0.0 69.053 100 456	
GRID 7133 100 9.750 -90.000 69.053 100 456	
GRID 7136 100 3-180 -90-000 69-053 100 456	
GRID 7193 100 9-750 180-000 93-607 100 456	
GR1D 7146 100 5.180 180.000 93.607 100 456	
GRID 7205 100 9.750 90.000 93.607 100 456	
GRID 7208 100 3.180 90.000 93.607 100 456	
GRID 7217 100 9.750 0.0 93.607 100 456	
GRID 7220 100 3.180 0.0 93.607 100 456	
GRID 7229 100 9.750 -90.000 93.607 100 456	
GRTD 7232 100 3.180 -90.000 43.607 100 45a	
GRID 7289 100 9.750 180.000 118.160 100 0	
GRID 7290 100 7.560 180.000 118.160 100 456	
GRID 7291 100 5.370 180.000 118.160 100 456	
GRID 7292 100 3.180 180.000 118.160 100 456	
GRID / 7293 100 %.750 150.000 118.160 100 n	
GRTD 7294 100 7.560 150.000 118.160 100 456	
GRID 7295 100 5.370 150.000 118,160 100 456	
GRID 7296 100 3.180 150.000 118.160 100 456	•
GRID 7297 100 9.750 120.000 118.160 100 0	
GRID 7298 100 7.560 120.000 118.160 100 456	
GRID 7299 100 5.370 120.000 118.160 100 456	
GRID 7300 100 3.160 120.000 118.160 100 456	
GRID 7301 100 9.750 90.000 118.160 100 U	
GRID 7302 100 7.560 90.000 118.160 100 456	
GRID 7303 100 5.370 90.000 118.160 100 456	
GRID 7304 100 3.180 90.000 118.160 100 456	

. 1 .	. 2 3	4 5 6	7		А .			10 .
GRID	7305 100	9.750 60.000 118.160	100	o		Ŧ. ´		
GRID	7306100	7.560 60.000 118.160	100	456	• • • • •		•	
GRID	7307 100	5.370 60.000 118.160	100	456	• .			•
GR I D	7308 100	3.180 60.000 118.160	100	456				
GRID	7309 100	9.750 30.000 118.160	100	0				
GRID	7310 100	7.560 30.000 118.160	100	456				
GRID	7311 100	5.370 30.000 118.160	100					
GRID	7312 100	3.180 30.000 118.160	100	456				
GRID	7313 100	9.750 0.0 118.160	100	0	•	*		•
GRID	7314 100	7.560 0.0 118.160	100	456	*.		٠.	
GRID	7315 100	5.370 0.0 116.160	100	456			•	
GRID	7316 100	3.180 0.0 118.160	100	456				-
GRID	7317 100	9.750 -30.000 118.160	100	0	٠.			•
GRID GRID	7318 100	7.560 -30.000 118.160	100	456	٠.	****		
GRID	7319 100	5.370 -30.000 118.160	100	456				
GR I D	7320 100	3.180 -30.000 118.160	100	456				
	7321 100	9.750 -60.000 118.160	100	· 436	· · · · · ·			
CRID		7.560 -60.000 118.160	100		• • •	÷ · .	. •	
GR I D	7322 100							
GRID	7323 100	5.370 -60.000 118.160	100	456		•		
GRID.	7324 100	3.180 -60.000 118.160	100	456	÷ ()		•	
GRID	7325 100	9.750 -90.000 118.160	100	0				
GRID	7326 100	7.560 -90.000 118.160	100	456				
GRID	7327 100	5.370 -90.000 118.160	100	450				
GRID	7328 100	3.180 -90.000 118.160	100	. :	•			
GRID	7329 100	9.750-120.000 118.160	100	,		:	400	
GRID	7330 100	7,560-120,000 118,160	100	456		·		
GRID	7331 100	5.370-120.000 118.160	100	456				
GRID	7332 100	3.180-120.000 118.160	100	456	··	· · :	٠.	• •
GRID	7333 100	9.750-150.000 118.160	100					
GRID	7334 100	7.560-150.000 118.160	100	456		• • •		
GRID	7335 100	5.370-150.000 118.160	100	456				
· CEID	7336 100	3.180-150.000 118.160	100	456				
GRID	7385 100	9.750 180.000 142.713	100	456				• •
GR 1D	7388 100	3.180 180.000 142.713	100	456			·	•
GRID	7397 100	9.750 90.000 142.713	100	~456	_ ·			
GRID	7400 100	3.180 90.000 142.713	100	456			1	
GRID	7409 100	9.750 0.0 142.713	100	456	•	٠.		
GRID	7412 100	3.180 0.0 142.713	100	456				
GK I D	7421 100	9.750 -90.000 142.713	100	456				
GRID .	7424 100	3.180 -90.000 142.713	100	456		٠.		•
GRID	7481 100	9.750 180.000 167.267	100	456				
GRID	7484 100	3.180 180.000 167.267	. 100	456			٠.,	
GRID	7497 100	9.750 90.000 167.267	100	456	•			
GRID	7496 100	3.180 90.000 167.267	100	456				
GF J D	7505 100	4.750 0.0 167.267	100					:
GRID	7508 100	3.180 0.0 167.207	100	456		•		
	7517 100	9.750 -90.000 157.267	100	456				
GH1U.	7517 100 7520 100	9.750 -90.000 167.267 3.180 -90.000 167.267	100	456				
	7520 100	3.180 -90.000 167.267 9.75 180.0 196.25						

INPUT BULK DATA DECK ECHU

1	7												
GRID 7800 100 9.43657 71.383196.25 100 456					•• 4				••	B ••	Ģ	• •	10
GRID 780 100 9.79 0.0 196.25 100 456 GRID 7813 100 9.43657 -100 196.25 100 456 GRID 7865 100 15.25 100.0 217.94 100 456 GRID 7866 100 15.25 100.0 217.94 100 456 GRID 7866 100 15.25 100.0 217.94 100 456 GRID 7867 100 14.75977 131.383217.94 100 456 GRID 7870 100 14.75977 131.383217.94 100 456 GRID 7870 100 14.75977 171.333217.94 100 456 GRID 7873 100 15.25 90.0 217.94 100 456 GRID 8352 101 196.25 13.87258 9.75 101 456 GRID 8355 101 196.25 13.87258 9.75 101 456 GRID 800 7013 PLOTEL 6002 7001 7097 6012 7013 7109 7205 PLOTEL 6004 7193 7289 6014 7205 7301 7307 PLOTEL 6004 7193 7289 6014 7205 7301 7397 PLOTEL 6004 7193 7289 6014 7205 7301 7397 PLOTEL 6006 7385 7481 6016 7307 7403 PLOTEL 6006 7385 7481 6016 7307 7403 PLOTEL 6007 7481 7801 6017 7403 7805 PLOTEL 6002 7025 7121 6042 7037 7133 PLOTEL 6002 7025 725 6031 6910 7037 PLOTEL 6022 7025 7121 6042 7037 7133 PLOTEL 6022 7025 7121 6042 7037 7133 PLOTEL 6022 7025 7121 6042 7037 7133 PLOTEL 6022 7025 7313 7409 6035 7325 7421 PLOTEL 6026 7409 7505 6036 7421 7517 PLOTEL 6026 7409 7505 6036 7421 7517 PLOTEL 6026 7409 7605 6005 7121 7217 PLOTEL 6026 7409 7605 6005 7121 7217 7209 PLOTEL 6026 7409 7605 6005 7121 7217 7209 PLOTEL 6026 7409 7705 6007 6005 7121 7217 7209 PLOTEL 6046 7007 7001 6056 7129 7005 PLOTEL 6046 7007 7001 6050 7127 7209 PLOTEL 6046 7007 7001 605	,												•
GRID 7811 100 9.43657 - 88.617196.25 100 456 100 7813 100 9.75 - 40.6 106.25 100 456 100								-	•				
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PLOTEL	6092	7867	7869		6086	7811	7813	
PLOTEL	6093	7869	7870		6087	7813	7814	
PLOTEL	6094	7870	7873		6086	7814	7801	•
PLOTEL	6095	7873	7875		6075	6907	8134	•
PLOTEL	6096	7875	7877		6076	7805	8352	•
PLOTEL	6097	7877	7878		6077	7809	8355	
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PLOTEL	6101	7004	7016					
					6111	7196	7208	
PLOTEL	6102	7016	7028		6112	7208	7220	
PLOTEL	6103	7028	7040		6113	7220	7232	
PLOTEL	6104	7040	7004		6114	7232	7196	•••
PLOTEL	6105	7100	7112		6115	7292	7304	
PLOTEL	6106	7112	7124		6116	7304	7316	
PLOTEL	6107	7124	7136		6117	7316	7328	
PLOTEL	6108	7136	7100		6118	7328	7292	en e
PLOTEL	6121	7388	7400					
PLOTEL	6122	7400	7412					
PLOTEL	6123	7412	7424					
PLOTEL	6124	7424	.7388					
PLOTEL	6125	7484	7496					
PLOTEL	6126	7496	7508				• •	
PLOTEL	6127	7508	7520					
PLOTEL	6128	7520	7484			,	12 H	
PLOTEL	6131	7001	7004		6141	7013	7016	
PLOTEL	6132	7097	7100		6142	7109	7112	
PLUTEL	6133	7193	7196		6143	7205	7208	
PLOTEL	6134	7289	7292		6144	7301	7304	
PLOTEL	6135	7385	7388		6145	7397	7400	
PLOTEL	6136	7481	7484		6146	7493	7496	
PLOTEL	6151	7025	7028	-,	6161	7037	7040	
PLOTEL	6152	7121	7124		6162	7133	7136	
PLOTEL	6153	7217	7220		6163	7229	7232	•
PLOTEL	6154	7313	7316		6164	7325	7328	ige i salah di kacamatan di kacam
PLOTEL	6155	7409	7412		6165	7421	7424	
PLOTEL	6156	7505	7508		6166	7517	7520	
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OMITI	123	7300	7302	7303	7306	7307	7,308	7310
OMITI	123	7311	7312	7314	7315	7318	7319	7320
DMITI : :	123	7322	7323	7324	7326	7327	7330	7331
OMITI	123	7332	7334	7335	7336			
OMITI	456	7289	7301	7313	7325			
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CONRUD 1 7001 7097 1 .0000001 MAT1 1 10.566 MPC 6050 6907 1 1.0 8134 1 -1.0 SUPURT 8134 122 8352 123 8355 123 DMI EOR 0 2 1 2 6 9 DMI EQR 1 1012047 .980338196959-28.9148 3.2343961 01 EEQ1 17.8664 DMI EOR 2 1 ,05985 .197328 .978504-25.5831-16.06876E02 ELQ2 4.80504 DMI EOR 3 1 .99813 306105 1.18502 34.459361 03 CEQ3 19.3744 DMI EOR 4 1 .99813 306105 .913934 43.51106F04
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MPC 6050 6907 1 1.0 8134 1 -1.0 SUPURT 8134 122 8352 123 8355 123 DMI EOR 0 2 1 2 6 9 DMI EOR 1 1012047 .980338196959-28.9148 3.234396101 EEQ 1 17.8664 DMI EOR 2 1 ,05985 .197328 .978504-25.5831-16.06876E02 ELO2 4.80504 DMI EOR 3 1 .99813 306105 1.18502 34.45936103 CEQ3 19.3744 DMI EOR 4 1 .99813 306105 .913934 43.51106F04
SUPURT 8134 123 8352 123 8355 123 DMT
DMI EOR 0 2 1 2 6 9 DMI EQR 1 1012047 .980338196959-28.9148 3.2343961 01 EEQ1 17.8664 DMI EQR 2 1 ,05985 .197328 .978504-25.5831-16.06876E02 ELO2 4.80504 DMI EQR 3 1 .99813 306105 1.18502 34.459361 03 EEQ3 19.3744 DMI EQR 4 1 .99813 306105 .913934 43.51106F04
DMI EQR 1 1012047 .980338196959-28.9148 3.2343961 01 EEQ 1 17.8664
EEQ1 17.8664 DMI EQR 2 1 ,05985 .197328 .978504-25.5831-16.06876EQ2 CEQ2 4.80504 DMI EQR 3 1 .99813 306105 1.18502 34.45936EQ3 CEQ3 19.3744 DMI EQR 4 1 .99813 306105 .913934 43.51106FQ4
DMI EQR 2 1 ,05985 .197328 .978504-25.5831-46.06876E02
CEQ2 4.80504 DMI EQR 3 1 .99813 3 06105 1.18502 34.45938103 CEQ3 19.3744 DMI EQR 4 1 .99813 3 06105 .913934 43.51106FQ4
DMI EQR 3 1 .99813 306105 1.18502 34.45938103 <u>CEQ3</u> 19.3744 DMI EQR 4 1 .99813 306105 .913934 43.51106FQ4
EEQ3 19.3744 DMI EQR 4 1 .99813 306105 .913934 43.5110GFQ4
DM1 EQR 4 1 .99813 306105 .913934 43.5110GFQ4
EEQ4 14.9423
<u>DMI</u> <u>EQR</u> <u>5</u> <u>1</u> <u>012047</u> .980338196959-28.4118 36.97906EQ5
CEQ5 185.7937
DM1 EQR 6 1 .05985 .197328 .978504-20.9608-183.7148FQ6
£E06 38.3298
UM1 EUR 7 1 •99813 306105 1•14885 24•3945£FQ7
6E07 18.7829
<u>DMI EQR 8 1012047 .980338196959-8.94825 36.979 CEQ8</u>
6EQ8 184.6032
DMI FUR 9 1 .05985 .197328 .478504-20.9608-183.714CEQ9
©EQ9 38∙3298
ENDDATA

TOTAL COUNT = 230

A4-12

					•		•		_
COUNT 1	2	•• 3	4	5	• • • • 6	• 7	•• 8	•• 9	• 10
1-CONROD		7001	7097	1	• 000000	т			
2-CORD2C		6.96	74.738	-30.494	6.138	200.0	-30.494	6.138	&CS.SRM
3-6CSSRM			0.0						
4-CURD2R		696	74.738	-30.494	6.138	74.738	-26.570	115.6963	ERSSRM
5-ERSSRM		<u>-30.49</u>						11 111	
6-CORD2R		O	-81.568		35.5985	-80.227	H+0 - 1	57-5136	. ERSTANK
7-ERSTAN		0.0	48.432						
8-DMI		0	. 5	. 1	2		, 1	1	
O-DW1	DF AC	1	1	1.0				_	
10-DM1	F.OK	. 0	5	1	2		to the second	4	•
11-DM1	<u> </u>	1		01204	7. 980338	19695	9-28-914	H3.23439	1 O 3 3
12-6E01	17.8664				: 1				•
13-DM1	EQR	2	. 1	•05985.	.197328	.978504	-25.583	1-16-068	76E02
14-EEQ2	4.8050		المستحدي				<u></u>		
15-DM1	E OR	3	1	•99813	3	06105	1.18502	34.4593	E03
16-6E03	19.374	14							
17-DM1	FOR	4	<u>L</u>	•99813	3	<u>-</u> ,06105	. •91.3934	43.5110	EEQ4
18-6E04	14.942	23	•						
19-DM1	EQR	5	1	01204	7.980338	• 19695	9-28-411	836.9790	EFQ5
20-6E05	185.793	37				والمشاعب والأ			
21-DMT	EOR	6 .	1	• 05985	•197328	-978504	-20.960	8-183.71	48F Q6
22-6EQ6	38.329	98							
23-DM1	EQR	7	1	99813	3	06105	1.14885	24.3945	EFO7
24-6E07	18.782	29	1 .						
25-DMI	EQR	8	. 1	01204	7.980338	- 19695	9-8-9482	536.979	6FQR
80-SE08	184 - 60	32							
27-DM1	EOR	9 .	1	• 05985	• 197 320	•978504	20.960	8-183.71	41.1 00
28-6EQ9	38.329	98		•				·	
29-DMI	GFAC	0	2	1	į.	•	1	1	
BO-DMI	GF AC	1.,	1	1.0	•				·
31-DMI	KFAC	0	2	. 1	2	 I = T = T = T 	. 2	1	
32-DM1	KFAC	1	. 1	1.0	1.0	• .			
33-GRID	6901	100	9.750	180.000	25.242	100	456	•	
34-GRID	6904	100	9.750	90.000.	25.242	100	456	•	
35-GR1D	6907	100	9.750	0.000	25.242	100	4'16.		
36-GRID	6910	100	4.750	-90.000	25.242	100	450		•
37-GRID	7001	100	9.750		44.500	100	456		
38-GRID	7004	100	3.180	180.000	44.500	100	456	•	
39-GR10	7013	100	9.750	90.000	44.500	100	456		
40-GRID	7016	100	3.180	90.000	4.4 -500	100	456		•
41-CHID	7025	100	9.750	0.0	44.506	100	456	**	
42-GRID	7028	100	3.180		44.500	100	456		
43-GRID	7037	100	9.750		44.500	100	456		
44-GRID	7040	100	3.180	-90.000		100	456	-	
45-GRID	7097	100	9.750		69.053	100	450		•
46-GRID	7100	100	3.180		69.053	100 "	456		
47-GR1D	7100	100	9.750	90.000	69+053	100	456 456		
		100	3.180	90.000	69.053	100	456		
48-GRID 49-GRID	7112 7121	-100	9.750	0.0	•		456		
	1161	- 100	70/DU '	U + U	69:053	. 100	430		

		\$	0 R T F	р вог	K D A	A T	ECHO				
CARD							~		•		10
COUNT . 1	. 2	100	0.750	-90 000		100	7 • · · · · · · · · · · · · · · · · · ·	• •	Ģ	• •	10
51-GRID 52-GRID	7133	100	9.750 3.180	-90.000 -90.000		100	456				
53-GRID	<u>7136</u> <u> </u>	100	9.750	180.000		100	456				•
54-GRID	7196	100	3.180	180.000		100	456				
55-GK1D	7205	100	9.750		93.607	100	456				
56~GR1D	7208	. 1.00	3.180		93.607	100	456				
57-GRID	7217	100	9.750.		93.607	100	456	•			
58-GRID	7220	100	3.180		93.607	100	456				
59- GRID	7229	100	9.750	-90.000		100	456				
60-GRID	7232	100	3.180	-90.000		100	456				
61~GRID	7289	100	9.750	180.000			0				
62-GRID	7290	100	7.560	180.000			456	•			
63-GRID	7291	100	5.370	180.000			456				
64-GRID	7292	100	3.180	180.000			456				
65- GRID	7293	100	9.750	150.000			0				
66-GRID	7294	100	7.560	150.000			456				
67-GRID	7295	100	5.370	150.000			456				
68-GR10	7296	100	3.180	150.000			456				
69-GR1D	7297	100	9.750	120.000			0				
70-GR 10	7298	100	7.560	120.000			456				
71-GR10	7299	100	5.370	120.000			456	•	•		
72-GH10	7300	100	3.160	120.000			456				
73-GRID	7301	100	9.750		118.160		0				
74-GRID	7302	100	7.560	90.000	118.160		456				
75-GR1D	7303	100	5.370	90.000	118.160		456				
76-GRID	7304	100	3.180		118.160		456				
77-GR1D	7305	100	9.750	60.000	118,160		n		•		
78-GRID	7306	100	7.560	60.000	118.160		450				
79-GRID	7307	100	5.370	60.000	118.160		456				
80-GRID	7308	100	3.180	60.000	118.160		456				
81-GRID	7309	100	9.750	30.000	118.160		. 0		•		
82-GRID	7310	100	7.560	30.000	118.100		456				
83-GR10	7311	100	5.370	30.000	118.100		456				
84-GR 1D	7312	100	3.180	30.000	118.160		456				
85- GR ID	7313	100	9.750	0.0	118.160		O				
86-GRID	7314	100	7.560	0.0	113.160		456				
87-GRID	7315	100	5.370		118.160		456				•
88-GRID	7316	100	3.180	0.0	118.160		456				
89-GRID	7317	100	9.750	-30.000			0				
90-GRTD	7318	100	7.560	-30.000			466				
91-6610	7319	100	5.370	-30.000			456				
92-GR 10	7320	100	3.180	-30.000		•	455				
93-GRID	7321	100	9.750	-60.000			0				
94-GRID	7322	100	7.560	-60.000			456				
95-6k10	7323	100	5.370	-60.000			456	•			
96-6810	7324	100	3.180	-60.000			456				
97-01-10	1325	100	9.750	-90.000			()				
98-CR TD	7326	100	7.560	-90.000	• • • •	•	456		•		
99-GRID	7327	100	5.370	-90.000			456				
100-6R10	.7326	100	3.180	-90.000			456				

· .		5 0		виц	K DA	T A	E C H	O
CARD								
COUNT 1	2	3	4	•• 5	•• 6	• •	7	8 9 .
101- GRID	7329	100	9.750	-120.00	011A.160	100	o T	
102-GRID	7330 .	100	7.560	-120.00	0118.160	100	456	
103- GR 10	7331	100	5.370	~120.000	0114.160	100	456	•
104- GR10	7332	100	3.140	-120.00	0118-160	100	450	
105- GRID	7333	1.00	2.750	-150.00	0118.160	100	· o	**
106- GRID	7334	100	7.560		0118.160		456	
107- GRID	7335	100	5.370	•	0118-160		456	
108- GRID	7336	1.00	3.180	-150.00	0118.160	100	456	
109- GRID	7385	1.00	9.750	180.000	142.713	100	456	
110- GRID	. 7368	100	3.180		142.713		456	
111- GRID	7397	100	9.750		142,713		456	
112-GRID	7400	100	3.180	90.000			456	
113- GRID	7409	100	9.750	0.0	142.713	100	456	
114- GR1D	7412	1.00	3.180	0.0	142,713	100	456	
115-GRID	7421	1 00	9.750	-90.000	142.713	100	456	
116- GR FD	7424	100	3.180	-90.000	142.713	100	456	
117- GRID	7481	100	9.750		167.267		456	•
116-GRID	7484	100	3.180		167.267		456	
119- GRID	7493	100	9.750	90.000	167.267		456	
120- GRID	7496	100	3.180	90.000	167.267		456	
121- 6810	71.01.	100	0.750	0.0	10/ . 76.7	100	4.161	
122- 6(11)	750H		3.100	0.0	107.267		4:11	
123- GHID	7517	100	9.750	~90.000			450	
124- GRID	7520	100	3.180		167.267		456	
125- GRID	7801	100	9.75	180.0	196.25	100	456	
126- GRID	7803	100	9.43657			100	456	
127- GRTD	7805	100	9.75	90.0	196.25	100	456	
128- GR1D	7806	100	9.43657		196.25	100	456	
129- GRID	7809	100	9.75		196.25		456	+
130- GRID	7811	100	9.43657			100	456	
131- GRID	7813	100	9.75	-90.0	196.25	100	456	
132-GRID	7814	100		-108.61		100	456	
133- GRID	7865	100	15.25	180.0	217.94	100	456	
134- GR1D	7867	100	14.7547	7131.383		100	456	• •
135- GR 1D	7869	100	15.25	40.0	217.94	100	456	
136- GRID	7870	100	14.7597		217.94	100	456	A
137- GRID	7873	100	15.25	0.0	217.94	100	456	
138- GRID	7875	100	14.7597	7-48-617		100	450	•
139- GRID	7877	100	15.25	-90.0	217.94	100	456	· · ·
140- GRID	7878	100	14.7597	7-108-61		100	450	
141- GRID	8134	696	99.98	-19.410	73.9071	100	456	
142- GRID	8352	101	196.25	13.8725		101	456	
143- GRID	8355	101	196.25	13.8725		101	456	
144- MAT1	1	10.566		•3		,		
145-MPC	6050	6907	1	1.0	5134	1	-1.0)
146-UMIT1	123	7290	7291	7294	7245	7296	1208	
147- UM111	123	7300	7302	7303	7306	7307		
146- DMIT1	123	. 7311	7312	7314	7315	731H	7.314	- · · · · · · · · · · · · · · · · · · ·
149- OMIT1	123	7322	7323	7.124	7326	7327	7330	
150-0MIT1	123	7332	7334	7335	7336	;		•

	2	*	_			-			_		• •
COUNT. 1 151-OMITI	•• 2 456	7289	7701	•• 5	** 6	•••	. •• 8	• •	9	• •	10
152-OMIT1	123456		7301 7297	7313 7305	7325	7747	7.50	~	20	•	
153-UMITI	123456_	7333			7309		7321	732	. •		
154-PARAM	NOSUB	2									
155-PARAM	SUBK4	1									
156-PARAM	TPCOPY	- <u>-</u>	•								
157-PARAM	TPNAME	SRMP2					•				
158-PARAM	TPNAMES										
159-PLOTEL	6001	6901	7001		6011	6904	7013			•	
160-PLOTEL	6005	7001	7097		6012	7013	7100				
161-PLOTEL	6003	7097	7193		6013	7109	7205				
162-PLOTEL	6004	7193	7289		6014	7205	7301				
163-PLOTEL	6005	7289	7385		6015	7301	7397				
164-PLOTEL	6006	7385	7481		6016	7397	7493				
165-PLOTEL	U007	7481	7801		6017	7493	7805				
166-PL01tL	6008	7801	7865		6018	7805	7869				
167-PLOTEL	6009	7803	7867		6019	7811	7875				
168-PLOTEL	6021	6907	. 7025		6031	6910	7037	- T.			
169-PLOTEL	6022	7025	7121		6032	7037	71.33				
170-PLOTEL		7121	7217		6033	7133	7229				
171-PLOTEL	6024	7217	7313		6034	7229	7325	• •	-		
172-PLOTEL	6025	7313	7409		6035	7325	7421				
173-PLOTEL	6026	7409	75.05		6036	7421	7517				
174-PLOTEL	6027	7505	7809		6037	7517	7813				•
175-PLOTEL	6028	7809	7873		6038	7813	7877				
176-PLOTEL	6029	7806	7870		6039	7814	7878				
177-PLOTEL	6041	6901	6904		6051	7697	7109				
178-PLOTEL	6042	6904	6907		6052	7109	7121				
179-PL016L	6043	6907	6910		6053	7121	7133				
180-PLOTEL	6044	6910	6901		6054	7133	7097				
181-PLOTEL	6045	7001	7013		6055	7193	7205				
182-PLOTEL	6046	7013	7025	•	6056	7205	7217			•	
183-PLOTEL	6047	7025	7037		6057	7217	7229		••		
184-PLUTEL	6048	7037	7001		6058	7229	7193				
185-PLOTEL	6061	7289_	7301		6065	7385	7397				
186-PLOTEL	6062	7301	7313		6066	7397	7409				
187-PLOTEL	6063	7313	7325		6067	7409	7421				
188-PLOTEL	6064	7325	7289		6068	7421	7385	•			
189-PLOTEL	6071	7481	7493		6081	7801	7803				
190-PLOTEL	6072	7493	7505		6062	7803	7805				
191-PLOTEL	6073	7505	7517_		6083	7805	7806				
192-PLOTEL	6074	7517	7481		6084	7806	7809				
193-PLOTEL	6091	7865	7867		6085	7809	7811				
194-PLOTEL	6092	7867	7869	·····	6086	7811	7813				
195-PLUTEL	6093	7869	7870		6087	7813	7814		· · · ·		
196-PLOTEL	6094	7870	7873		6088	7814	7801				
197-PLOTEL	6045	7873	7875		6075	6907	8134				
198-PLOTEL	6046	7875	7877		6076	7805	8352			-	
							11.57.512.				
199-PLOTEL	6097	7877	787B		6077	7809	8355				

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CARD										
COUNT . 1	2	•• 3	4	•• 5	• 6	Ż	•• 8	• •	0	10
201-PLOTEL	6101	7004	7016		6111	7196	7208			
202-PLOTEL	6102	7016	7028		6112	7208	7220			
203-PLOTEL	6103	7028	7040		6113	7220	7232			
204-PLOTEL	6104	7040	7004		6114	7232	7196			
205-PLOTEL	6105	7100	7112		6115	7292	7.304			
206-PLOTEL	6106	7112	7124		6146	7304	7316			
207-PLOTEL	6107	7124	7136		6117	7316	7328			•
208-PLOTEL	6108	7136	7100		6118	7328	7292	•		
209-PLOTEL	6151	7388	7400		:	-	•			
210-PLOTEL	6122	7400	7412				-		•	
211-PLOTEL	6123	7412	7424							
212-PLOTEL	6124	7424	7388	•					,	
213-PLOTEL	6125	7484	7496				100			
214-PLOTEL	6126	7496	75.08		· ·					
215-PLUTEL	6127	7508	7520							
216-PLUTEL	6128	7520	7484		:					
217-PLUTEL	6131	7001	7004		6141	7013	7016			
218-PLOTEL	6132	7097	7100		6142	7109	7112			
219-PLOTEL		7193	7196		6143	7205	7208			
220-PLOTEL	6134	7.289	7292		6144	· 7301	7304			
221-PLOTEL	6135	7385	7388		6145	7397	7400			
222-PL01FL	6136	7481	7484	•	6146	7493	7446			•
223-PLOTEL	6151	7025	7028		6161	7037	7040			
224-PLOTEL	6152	7121	7124		6162	7133	7136			
225-PLOTEL	6153	7217	7220		6163	7229	7232		•	
226-PLOTEL	6154	.7313	73.1.6		. 6164	7325	7328	,,		
227-PLOTEL	6155	7409	7412		6165	7421	7424			
228-PLOTEL	6156	7505	7508		6166	7517	7520			
229- SUPORT	8134	_123	8352	123	8355	12,3				
ENDDATA	4				'	,				

SOLID ROCKET BOOSTER COMBINED MODEL PHASE II PT. 1

116 DEGREES OF FREEDOM Z702239

NASTRAN EXECUTIVE CONTROL DECK ECHO

		- 	
	SE2_SRMR1		
APP	DISP		
CHKPNT	YES		•
TIME	15		
SOL	7.0		•
DIAG 7	7.8.13.14.19.21.22		
ALTER 2	28 PARAMETER DEFAULTS		
PARAM	//C.N.NDP/V.Y.NOSUB=0		•
PARAM	//C.N.NUP/V.Y.TPCTIPY=-1		
PARAM	//C.N.NUP/V.Y.SUBGK#-1		•
PARAM	//C.N.NUP/V.Y.SUBK4=-1	:	
PARAM	//C.N.NOP/V.Y.SUBB=-1		
PARAM	//C.N.NOP/V.N.TRUE=-1		** :
			•
ALTER 2			
CHKPNT	EST.GUI.ECPT.GPCT		
PARAM	//C+N+SUG/V+N+CUUFLE/V+Y+MOSUH/C+N+1		
PARAM	//C.N.NUP/V.N.NUK4GG#-1		
PURGE			
CHKPNT	KGGX+K4CG+GPST+OGPST		
COND	L30.NDS1MP		
COND	L25A • GENEL		
CUND	L25B • COUPLE		
LABEL	L25A		•
PURGE	OGPST/TRUE		
CHKPNT	OGPST		
LABEL	L25B	•	
ALTER 3	0.31		
CHKPNT	KGGX+K4GG+GP51		
LABEL	L30		-
ALTER 3	4.35		
PARAM	//C.N.AND/V.N.NUHG/V.N.NDEGG/V.Y.SUBB		
PARAM	//C.N.AND/V.N.NORK4/V.Y.SUBGK/V.Y.SUBK4		
PARAM	//C.N.AND/V.N.NUK4/V.N.NURK4/V.N.NOK4GG		
CUND	L34A.NUMGG	****	
JUMP	L 34B		
LABEL	L34A		,
COND	ERROR3.COUPLE	j.	*. *
LABEL	L34B		
PURGE	BNN.BFF.BAA.BUGY/NOBU		
PURGE	•		
	KAGGY KANN KAFF KAAA MIKA		
CHKPNT	HGGY . KAGCY . KANN . KAFF . KAAA . MGG . HGG . HNN . HF	· F • BAA	
ALTER 3			
COND	LBL1.NUMGG		• .
	2.42 \$ IF COUPLING RUN; COMBINES SUBSTRUCTURES.		
PURGE	CPG1.KI.MI.KGG1.MGG1.KGGS.MGGS.KGT.MGTZCOUPLI		
PUHGE	K4GGS+K4CG1+K4G1+G1K1+K411+K41/COUPLE		*
PURGE	BI .BGGS .BGGT .BGT .GF AC .KF AC .BF AC/COUPLE		
CHKPNT	KGGS+MGGS+K4GGS+BGGS		
PARAM	//C.N.NOP/V.N.CHECK=0		
			•

```
COND
        LPC9.COUPLE & SKIP.NOT A COUPLING RUN
INPUTTI / ..../C.N.-3/C.N.9/V.Y.TPNAME9 & LIST TAPE & REWIND
PARAM
        //C.N.NUP/V.N.PASS=1 & INITIAL LOOP PASS MARAMETER
        K4GGS+K4GGI+K4GT+G1K1+K411+K41+GFAC+KFAC/T-UHK4
PURGE
PURGE
        GIKT.GFAC/SUBGK/K41.KFAC/SUBK4/BGGS.BGGT.BGT.BFAC/SUBB
CHKPNT
        K4GGS.BGGS
        LUDPC
JUMP
LABEL
        LUUPC
                $ TUP OF LOUP
        //C.N.SUB/V.N.PASSI/V.N.PASS/C.N.2
PARAM
INPUTTI /CPGI-KI-MI--/C-N-G/C-N-9 5
CUND
       LPC1.PASS1
JUMP
        LPC3
LABEL:
        LPCI
MERGE .
        ***K1*CPG1*/KGGS/C*N*-1/C*N*2/C*N*6
MERGE .
        ***MI,CPGI*/MGGS/C.N*-1/C.N*2/C.N*6
        LPC2.NORK4
COND
MERGE .
        ****CPG1*/K4GGS/C*N*-1/C*N*2/C*N*6
LABEL
        LPC2
        LPC3.SUBB
COND
MERGE .
        ....CPG1./BGGS /C.N.-I/C.N.2/C.N.b
LABEL
        LPCS
COND
        LPC4.PASSI
MERGE .
        ...KI.CPG1./KGG1/C.N.-1/C.N.2/C.N.6
MERGE.
        ...MI.CPGI./MGGI/C.N.-1/C.N.2/C.N.6
ADD
        KGGS.KGGI/KGT $
        KGT .KGGS/TRUE
EOUIV
ADD
        MGGS.MGGI/MGT &
        MGT.MGGS/TRUE
EQUIV
COND
        LPC4A.CHLCK
JUMP
        LPC4
LABEL
        LPC4A
        KGGS . MGGS
CHEPNT
LABEL
        LPC4
CUND
        LPC7.NURK4
COND
        LPC5.SUBGK
           GFAC//C.N.DMI/C.N.I/V.N.PASS/V.N.GIR $
PARAML
PARAMR
        //C+N+Eq/C+N+0+0/C+N+0+0/V+N+GIR/V+N+0UTC/V+N+1NC1/V+H+1NC2/
        V.N.NUGT $
PURGE
        GIKIZNOGI
CUND
        LPC5 .NOGT.
PARAME
        //C+N+COMPLEX/C+N+0.0/V+N+GIR/C+N+0+0/V+N+GI 4
ADD
        KI./GIKI/V.N.GI $
LABEL
        LPCS
CUND
       LPC6.SUBK4
           KFAC//C.N.OMI/C.N.I/V.N.PASS/V.N.KAR &
PARAML
        //C+N+EU/C+N+U+U/C+N+U+U/V+N+K4R/V+N+OUTC/V+K+1NC1/V+X+1NC2/
PARAMR
        V.N.NUK41 5
PURGE
        K41/NUK41
COND
        LPC6.NOK41
INPUTT1 /K41 ... /C.N. 0/C.N. 5
```

LABEL	LPC6
ADD	GIK1.K41/K411
MERGE .	***K411*CPG1*/K4GG1/C*N*-1/C*N*2/C*N*6
ADD	K4GGS.K4GG1/K4GT
EQUIV	K4GT.K4GGS/TRUE
COND	LPC7A • CHECK
JUMP	LPC7
LABEL	LPC7A
CHKPNT	K4GGS
LABEL	LPC7
COND	LPC8.SUBB
PARAML	BFAC//C.N.DMI/C.N.1/V.N.PASS/V.N.BIR 5
PARAMR	//C.N.EQ/C.N.O.O/C.N.O.O/V.N.BTR/V.N.GUTC/V.N.INC1/V.N.INC2/
· · · · · · · · · · · · · · · · · · ·	V.N.NOBI \$
COND	LPC8A • NUBI
INPUTI	I /B1/C.N.U/C.N.9 \$
MERGE.	•••Bl•CPGl•/BGGI/C•N•-1/C•N•2/C•N•n
ADD	BGGS:BGG1/EG1 \$
EQUIV	BGT+BGGS/TRUE
LABEL	LPC8A
CUND	LPC8B+CHLCK
JUMP	LPC8
LABEL	LPC88
CHKPNT	BGGS
LABEL	· LPC8
PARAM	LPC8 //C+N+ADD/V+N+PASS/V+N+PASS/C+N+1
PARAM	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1
PARAM PARAM	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS
PARAM PARAM PARAM	//C+N+ADD/V+N+PASS/V+N+PASS/C+N+1 //C+N+SUB/V+N+SKIPZ/V+Y+NUSUB/V+N+PASS //C+N+SUB/V+N+CHECK/V+N+SKIPZ/C+N+1
PARAM PARAM PARAM COND	//C+N+ADD/V+N+PASS/V+N+PASS/C+N+1 //C+N+SUB/V+N+SKIPZ/V+Y+NUSUB/V+N+PASS //C+N+SUB/V+N+CHECK/V+N+SKIPZ/C+N+1 LPCY+SKIPZ
PARAM PARAM PARAM CUND REPT	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LOOPC.20
PARAM PARAM PARAM COND REPT LABEL	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LOOPC.20 LPC9
PARAM PARAM PARAM COND REPT LABEL ADD	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIP?/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIP?/C.N.1 LPC9.SKIP? LODPC.20 LPC9 KGGX.KGGS/KGGY \$
PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIP?/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIP?/C.N.1 LPC9.SKIP? LODPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY
PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT ADD	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIP?/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIP?/C.N.1 LPC9.SKIP? LODPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1;
PARAM PARAM PARAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIP?/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIP?/C.N.1 LPCY.SKIP? LDDPC.20 LPCY KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1; MGGY
PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT ADD CHKPNT CUND	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LODPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 4: MGGY LPC11.NUK4
PARAM PARAM PAHAM COND REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPCG.SKIPZ LODPC.20 LPCG KGGX.KGGS/KGGY \$ KGGY MGG-MGGS/MGGY 1; MGGY LPC11.NUK4 KAGG.KAGGS/KAGGY
PARAM PARAM PAHAM COND REPT LABEL ADD CHKPNT ADD CHKPNT COND ADD CHKPNT	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LDOPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG-MGGS/MGGY 1; MGGY LPC11.NUK4 K4GG.K4GGS/K4GGY KAGGY
PARAM PARAM PAHAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT COND ADD CHKPNT LABEL	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LDDPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1, MGGY LPC11.NUK4 KAGG.KAGGS/KAGGY KAGGY LPC11
PARAM PARAM PAHAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD CHKPNT LABEL CUND	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9-SKIPZ LODPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1 MGGY LPC11-NUK4 K4GG.K4GGS/K4GGY K4GGY LPC11 LPC12-NUBG
PARAM PARAM PARAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT COND ADD CHCPNT LABEL COND ADD ADD ADD	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LODPC.20 LPC9 KGGX,KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1, MGGY LPC11.NUKA KAGG,KAGGS/KAGGY KAGGY LPC11 LPC12.NUBG HGG.HGGS/HGGY
PARAM PARAM PARAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD CHCPNT LABEL COND ADD CHKPNT	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LODPC.20 LPC9 KGGX,KGGS/KGGY \$ KGGY MGG-MGGS/MGGY 1, MGGY LPC11.NUKA KAGG,KAGGS/KAGGY KAGGY LPC11 LPC12.NUBG HGG.HGGS/HGGY BGGY
PARAM PARAM PARAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND CHKPNT LABEL COND CHKPNT LABEL COND	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.SKIPZ/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LDCDC.20 LPC9 KGGY MGG-MGGS/MGGY 1 KGGY LPC11-NUKA KAGG-KAGGS/KAGGY KAGGY LPC11 LPC12-NUBG HGC:HGCS/HGGY BGGY LPC12
PARAM PARAM PARAM CONG REPT LABEL ADD CHKPNT ADD CHKPNT COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND ADD CHKPNT LABEL COND CHKPNT LABEL COND CHKPNT LABEL COND	KGGY-KGGYNOGENL S KGGY-KGGYNOGENL S KGGY-KGGYNOGENL S
PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD CHKPNT LABEL COND ADD CHKPNT LABEL EGUIV ALTER	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LDOPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG-MGGS/MGGY \$ KGGY LPC11.NUK4 KAGG-KAGGS/KAGGY KAGGY LPC112.NUBG HGC-HGCS/HGCY BGGY LPC12 KGGY-KGG/NOGENL \$ 15.45 GFI-KGGY/KGG/V.N.LUSTI/V.N.NUGFNL/V.N.NUSIM=1 \$
PARAM PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD CHKPNT LABEL COND ADD CHKPNT LABEL EGUIV ALTER SMA3	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NUSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9.SKIPZ LDOPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG-MGGS/MGGY \$ KGGY LPC11.NUK4 KAGG-KAGGS/KAGGY KAGGY LPC112.NUBG HGC-HGCS/HGCY BGGY LPC12 KGGY-KGG/NOGENL \$ 15.45 GFI-KGGY/KGG/V.N.LUSTI/V.N.NUGFNL/V.N.NUSIM=1 \$
PARAM PARAM PARAM PARAM COND REPT LABEL ADD CHKPNT ADD CHKPNT CUND ADD CHKPNT LABEL COND CHKPNT COND CHK	//C.N.ADD/V.N.PASS/V.N.PASS/C.N.1 //C.N.SUB/V.N.SKIPZ/V.Y.NDSUB/V.N.PASS //C.N.SUB/V.N.CHECK/V.N.SKIPZ/C.N.1 LPC9-SKIPZ LDDPC.20 LPC9 KGGX.KGGS/KGGY \$ KGGY MGG.MGGS/MGGY 1; MGGY LPCI1.NUK4 K4GG.K4GGS/K4GGY K4GGY LPCI1 LPC12.NUBG HGG.HGGS/HGGY BGGY LPCI2 KGGY-KGG/NGGENL \$ IS.45

NASTRAN EXECUTIVE CONTRHE DECK ECHH

COND	L53A • NUMGG		
ADD	MGG./WGG/C.Y.ALPHA=%386.4.0.00 \$		
MATGPR	GPL .USET .SIL .WGG//C.N.G		
LABEL	L53A		
COND	L53B+COUPLE		
JUMP	LBL4		
LABEL	L538		
ALTER 6	53,63		
MCF 2	USET.GM.KGG.MGGY.BGGY.K4GGYZKNN.MNN.HNN.K4NN		
ALTER 7	74.74		
COND	L87.OMIT		
ALTER 7	77.77	,	
ALTER E	10.81		
COND	LBLB • NOHG		
ALTER 6	5 , 85		• `
COND	LB7.NUK4		
ALTER H	17		
LABEL	L87		
PURGE	CPARL + CPFUA + CPNSF + CPGMN + EQR + EQL + FQA + FQA + EQF + FQN + EQM + E	OG/RE	ACT
PURGE	EX-EXT-EOMT-EQNT-EQGT-EQGTC-MOGG-MIGGY/H-ACT		
PURGE	KLL . KER . KRH . LLL . ULL . DM . X . F ORT . DMT . GOT . GMT/REACT		•
CUND	LCP5.REACT & R-SET MUST BE DEFINED TO GENERATE EQG.		
RBMGI	USET+KAA+/KLL+KLR+KRR+++ \$		
RBMG2	KLL/LLL.ULL		
RBMG3	LLL.ULL.KLR.KRR/DM		•
CHKPNT	KLL «KLH «KRR «DM		
THNSP	E UR/E ORT		
MATGPR	GPL. USE T. SIL. E ORT//C.N.R		
MPYAD	KLR.DM.KRR/X/C.N.1 S		
MATGPR	GPL.USET.SIL.X//C.N.R		
MPYAD	EQR.X./EX/C.N.0/C.N.1/C.N.0 \$		
TRNSP	EX/EX1		
MATGPR	GPL+USE T+STL+LXT//C+N+R		
PURGE	CPEDAZUMITZCPNSEZSINGLEZCPGMNZMPCI I		
PURGE	E OOZUMITZE CMZ MPCF I		
PURGE	GOT/OMIT/GMT.EQMT/MPCF1		
VEC	USET/CPARL/C.N.A/C.N.R/C.N.L \$	•	•
TRNSP	DMZDMT		
MPYAD	LOR. DMT. /FOL/C. N. O/C. N. 1/C. N. O		
MERGE	E OR . » EUL . » CHARL » ZL UAZC » N » 1/C » H » 2/C » N » 2		
EQUIV	EQA .EQF /UMIT		. ,
COND	LCP1, DMIT		
VEC	USET/CPF DAZC+N+FZC+N+O/C+N+A \$		
TRNSP	60/601		
MPYAD	ENA, GUT. /F GU/C, N. U/C, N. 1/C. N. C		
MENGE	E00++1.0A++CPF (IA+/F GF/C+N+1/C+N+2/C+N+2		
LABEL	LCP1		
EQUIV	EQF .EUN/SINGLE		
COND	LCP2.SINGLE		
VEC	USET/CPNSF/C+N+N/C+N+S/C+N+F \$		
	The second secon		

```
MERGE . .. EQF .. CPNSF ./EUN/C.N.1/C.N.2/C.N.2
LABEL
      LCP2
      EQN/EQNT
TRNSP
MATGPR GPL.USET.SIL.EQNT//C.N.N
       FUN-EGG/MPCF1
EQUIV
COND
       LCP3.MPCF1
       USET/CPGMN/C.N.G/C.N.M/C.N.N 5
VEC
       GM/GMT
TRNSP
       EON.GMT./FOM/C.N.O/C.N.I/C.N.O
MPYAD
       EQM..EQN..CPGMN./EUG/C.N.1/C.N.2/C.N.2
MERGE
       EQM/EQMT
TRNSP
       GPL.USET, SIL. EUMT//C.N.M
MATGPR
LABEL
       LCP3
CHKPNT
       CPFDA.CPNSF.CPGMN.CPARL
CHKPNT
       FUG
TRNSP
      EQGT./EQGTC/C.Y.ALPHA#(386.4.0.0) 5
ADD
ASSUME CONVERSION OF MASS TO LES # 386.4
      MDGG/NONGG/MOGGY/COUPLE
PURGE
COND
       LCP4.NUMGG
       EUG.MGG.EUGIC.,./MUGG/C.N.3/C.N.1/C.N.O $
SMPYAD
       L CP4
LABEL
COND
       LCP5.COUPLE
      EQG.MGGY.EQGTC.../MUGGY/C.N.3/C.N.1/C.N.0 $
SMPYAD
LABEL
       LCP5
      MDGG.MBGGY...// $
MATPRN
CUND
     LCP8.TPCUPY
SEEMAT KAA...//C.N.PRINT
SEEMAT MAA...//C.N.PRINT
QUIPUTE GM.GO.KFS.KAA.//C.N.-1/C.N.O/V.Y.TPNAME
OUTPUTE MAA...// $
      LCP7.NOK4
SEEMAT KAAA....//C.N.PRINT
DUTPUT1 KAAA+++/// $
LABEL LCP7
      LCP8.NOB6
COND
SCEMAT BAA. . . . //C .N . PRINT
OUTPUT1 BAA...// $
LABEL LCP8
ALTER 89.162
ALTER 164.167
ENDALTER
CEND
```

<u>N A</u>	STRAN FX	FC <u>UIIVE</u> CN	NTROL	DECK	(()) ()
				-	
		. 8/28/73. 17786.	PUNCHED DU	T FOR THIS	PROBLEM
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PHASE 2 APART 1) SRM COUPLING RUN

	CASE CONTROL DECK ECHO
CARD	The second state of the second state of the second
COUNT	TITLE = PHASE 2 (PART 1)
2	SUBTITLE # SRM COUPLING RUN
3	MAXLINES # 60000
4	ECHO = BOTH
5	MPC = 6050
6	OUTPUTXPLOT)
7	SET 1 = ALL
9	PLOTTER CALCOMP 765,105 AXES # MY,X,Z
10	VIEW = 30.0.45.0.0.0
11	FIND SCALE ORIGIN 1-SET 1
12	PLOT
13	BEGIN BULK
	and desired to the state of the
	time to the control of the control o
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INPUT BULK DATA DECK ECHO

	. 2 .		. 4 .			• 7	. 8	. 9 10
COMDSH	696	0	-81.5683	0.0	35.5985	-80.22	78 0.0	; 57.51366RSTAN
ERSTANK	68.25	.0 • 0	48.432				·	
CORD2C	100	696	74.738	-30.494	6.138	200.0	-30.494	6.138 GCSSRM
ECSSRM	74.738	0.0	0.0				•	
COND2H	101	696	74.738	-30.494	6.138	74.73	8 -28.5701	15-6963ERSSRM
CHSSRM		-30.494						•
GRID	6901	100	•	180.000	25.242		456	•
GRID	6904	100	9.750	90.000	25.242		456	
GRID	6907	100	9.750	0.000	25.242		456	
GRID	6910	100		-90.000	25.242		456	
GH I D	7001	100	9.750	180.000	44.500	100	456	
GRID	7004	100	3.180		44.500		456	
GRID	7013	100	9.750	90.000	44.500		456	• •
GRID	7016	100	3.180		44.500		456	
GRID	7025	100	9.750	0.0	44.500	100	456	
GHID	7028	100	3.180	0.0	44.500	100	456	
GRID	7037	100	9.750	-90.000	44.500	100	456	
CKID	7040	100	3.180	-90.000	44.500	100	456	
GRID .	7097	100	9.750	180.000	69.053	100	456	
GRID	7100	100	3.160	180.000	69.053	100	456	
GRID	7109	100	9.750	90.000	69.0t.3	100	456	
GRID	7112	100 🐇	3.180	90.000	69.053	100	456	
GRID	7121	100	9.750	0.0	69.053	100	456	
GRID	7124	100	3.180	0.0	69.053	100	456	
GR 1D	7133	100	9.750	-90.000	69.053	100	456	•
GRID -	7136		3.180	-90.000	69.053	100	456	•
GRID	7193	100	······································	180.000	93.607		456	
GRID	7196		3.180		93.607		456	
GR I D	7205	100	9.750	90.000	93.607		4156	•
GHTD	7208	100	3.180	90.000	93.607		456	
GRID	7217	100	9.750	0.0	93.607		456	
GRID	7220	100	3.180	0.0	93.607		456	. *
GHID	7229	100	9.750		93.607		456	
GRIU	7838	100		-90.000	93.607		456	
GH I D	7289	100		180.000			0	
GRTD	7290	100		180.000			456	
CH 10)	7291	100		180.000			456	
GRID	7292	100		180.000			456	
GHID	1293	100		150.000			• •	
GHTD -	1294	100		150.000			0	
							450	
GR 10	7295	100		150.000			456	
	7246	100		150.000			456	
GRID	7297	100		120.000			0	
GRID	7298	100		120.000	,		456	*** . * **** * ***
GRID	7299	100		120.000			456	
GRID	7300	100		120.000			456	
GRID	7301	100	9.750		118.160		0	
GRID	7302	100	7.560		118.160		456	
GRID	7303	100	5.370		118,160		456	
GRID	7304	100	3.180	90.000	118.160	100	456	

	INPO	T BULK DATA	D F C	K E	C	но				
. 1	2 3	4 5 6	. 7	••	8		9	••	10	
GRID	7305 100	9.750 60.000 118.160		0	_		-		• •	•
GR I D	7306 100	7.560 60.000 118.160		456						*
GRID	7307 100	5.370 60.000 118.160		456						
GRID	7308 100	3-180 60-000 118-160		456						
GRID	7309 100	9.750 30.000 118.160		0						
GRID	7310 100	7.560 30.000 118.160		456						
GH1D	7311 100	5.370 30.000 118.160		456						
GRID	7312 100	3.180. 30.000 118.160		456						
GRID	7313 100	9.750 0.0 118.160		0		•				
GRID	7314 100	7.560 0.0 118.160		456						
GRID	7315 100	5.370 0.0 118.160		456						
GRID	7316 100	3.180 0.0 118.160		456						
GRID	7317 100	9.750 -30.000 118.166		0	٠.	•				
GRID	7318 100	7.560 -30.000 118.160		456						
GRIU	7319 100	5.370 -30.000 118.160	-	456		-				
GRIU	7320 100	3.180 -30.000 118.160		456						
GRID	7321 100	9.750 -60.000 118.160		0						
GK1D	7322 100	7.560 -60.000 118.160		<u>~</u> 456					-	-
GRID	7323 100	5.370 -60.000 118.160		456		3				
GRID:	7324 100	3.180 -60.000 118.160		456						
GRID	7325 100	9.750 -90.000 118.160		0						
GR I D	7326 100	7.560 -90.000 118.160		456						
GRID	7327 100	5.370 -90.000 118.160								
GRID	7328 100			456						
GRID		3.180 -90.000 118.160		456				•		
		9.750-120.000 118.160								
GRID		7.560-120.000 118.160		456						
GRID GRID	7331 100 7332 100	5.370-120.000 118.166		456						
•		3.180-120.000 118.160		456						
GRID	7333 100	9.750-150.000 118.160		0						
GRID	7334 100	7.560-150.000 118.160		456						
GRID	7335 100	5.370-150.000 118.160		456						
GRID	7336 100	3.180-150.000 118.160		456						-
GRID	7385 100	9.750 180.000 142.71		456						
GHID	7388 100	3.180 180.000 142.713		456						
GRID	7397 100	4.750 90.000 142.71		456						
GRID	7400 100	3.180 90.000 142.71		456						
GRID	7409 100	9.750 0.0 142.713		456						
GRID	7417 100	3-180 0-0 142-71		456				-		
GRID	7421 100	9.750 -90.000 142.713		450						
GRID	7424 100	3.180 -90.000 142.713		456						
GRID	7481 100	9.750 180.000 167.26		456						
GRID	7484 100	3.180 180.000 167.26		456						
GR 1D	7493 100	9.750 90.000 167.26		456						
GRID	7496 100	3.180 90.000 167.267		456.						
GR I O	7505 100	9.750 0.0 167.26		456				5		
GRID	7508 100	3.180 .0.0 167.267		456.						
GRID	7517 100	9.750 -90.000 167.267		456					. .	
GRID	7520 100	3.180 -90.000 167.267		456						
GRID	7801 100	9.75 180.0 196.25	100	456						
GR I D	7803 100	9.43657 131.383196.25	100	456					_	

INPUT BULK DATA DLCK ECHO

•	1	••	2 .	• 3	4	•• 5	6	7	••	8		9	••	10	•
GR I	D		7805	100	9.75	90.0	196.25				-		-	-	-
GH I	D		7806	100	9.436	57 71.3	3196.25								
6151	D		7809	100	9.75	0.0	146.25		456				-		
GR I	D		7611	100	9 - 436	57 -48.61	17196.25	100	456						
GRI	Ð		7813	100	9.75	-90.0	196.25	100	456						
GR 1	D		7814	100	9.4369	57-108-6	17196.25	100	456						
GR I	Ð		7865	100	15.25	180.0	217.94	100	456						
CH I	D		7867	100	14.7597	77 131.30	33217.94	100	456						
GRI	D		7869	100	15.25	90.0	217.94	100	456					•	
(#e.1	υ ·		7870	100	14.7597	77 71.38	13217.94	100	456						
CK I	D		7873	100	15.25	0.0	217.94	100	456						•
GH I	D		7875	100	14.7597	77 -48.6	7217.94	100	456					• • •••	
GR I	D		7877	100	15.25	-90.0	217.94	100	456						
GR I	D		7878	100	14.7597	77-108-6	17217.94	100	456						
GR I	D	ક	134	696	99.98	8 -19.410	3.90	71 100	456						
GR I	D	8	352	101	196.25	13.872	9.75	101	4	56					
GR I	D	ಕ	355	101	196.25	13.672	8 -9.75	101	4	56					
PLO	TEL	60	01	6901	7001		6011	. 6904	70	13					
PLO	TEL	60	02	7001	7097		6012	7013	71	09					
PLO	TEL	60	03	7097	7193_		6013	7109	72	05					_
PLU	TEL	60	04	7193	7289		6014	7205	73	01					
PLU	TEL	60	05	7289	7385		6015	7361	73	47					
PLU	TEL	- 60	06	7385	7481		6016	_ 7397	74	93					
PLU	TEL	60	07	7481	7801		6017	7493	78	05					
PLO	TEL	60	08	7801	7865		601B	7805	78	69					
PLO	TEL	60	21	6907	7025		6031	6910	70	37	:				
Pt. 0	IEL	60	5.5	7025	7121		6032	70.47	71	33			•		
PLO	TEL		23	7121	7217		6033	7133	72	24					
PLU	TEL	60		7217	7313		6034	7224	73	25					
	TEL	60		7313	7409		6035	7325	74	21					
PLO		60		7409	7505		6036	7421	75	17					
PLO		60		7505	7809		6037	7517	78	13					
PLO		60		7809	7873		6038	7813	78	77					
PLO		60		7803	7867		6019	7811	78	75					
PLU		60		7806	7870		6039	7814		7 B					
PLO		60		6901	6904		6051	7047		09					
PLO		60		6904	6907		6052	7109	71	21					
PLO		60		6907	6910		6053	7121	71	33					
PLO		60		6910	6901		6054	7133	70						
PLO		60		7001	7013	•	6055	7193	72						
PLO		60		7013	7025		6056	7205	72						
PLO		60	-	7025	7037		6057	7217	72						
PLO		60		7037	7001		6058	7229	71						•
PLO		_60		7289	7301		6065	7385	73		. :			-	
PLO		600		7301	7313		6066	7247	74						
PLO	•	66		7313	7325		6067	7409	74						
PLU		- 60		7325	7289	····	606H	7421	. 73						
PLU		60		7481	7493		6081	7801	78						
PLO		60		7493	7505	•	6082	7803	78						
PLO	TEL.	40	13	75.05	7517		6083	7805	7R	06					

INPUT	S II I K	1) A T A	D & C R	FCUA
, , ,	S O L K	U A (A		LLHI

	•• 2	•• 3						
• 1	6074	•• 3 7517	7401	•• 5	•• 6	7	•• 8	9 10
PLOTEL	6091		7481		6084	7806	7809	•
PLOTEL	6092	7865	7867		6085	7809.	7811	·
PLOTEL		7867	7869		6086	7811	7813	
PLOTEL	6003	7869	7870		6087	7813	7814	
PLOTEL	6094	7870	7873		6088	7814	7801	
PLOTEL	6095	7873	7875		6075	6907	8134	
PLOTEL	6096	7875	7877		6076	7805	8352	
PLOTEL	6097	7877	7878		6077	7809	8355	
PLOTEL	6098	7878	7865		6078	7H 13	8355	
PLOTEL	6101	7004	7016		6111	7196	7208	
PLOTEL	6102	7016	7028		6112	7208	7220	
PLOTEL	6103	7028	7040		6113	7220	7232	
PLOTEL	6104	7040	7004	•	6114	7232	7196	
PLOTEL	6105	7100	7112		6115	7292	7304	
PLOTEL	6106	7112	7124		6116	7304	7316	
PLOTEL	6107	7124	7136		6117	7316	7328	
PLUTEL	6108	7136	7100		6118	7328	7242	
PLOTEL	6121	7388	7400					
PLOTEL	6122	7.400	7412					
PLOTEL	6123	7412	7424	· ·				
PLOTEL	6124	7424	7388					
PLOTEL	6125	7484	7496					
PLOTEL	6126	7496	7508			·		
PLOTEL	6127	7508	7520					
PLOTEL	6129	7520	7484.	•	•	•		
PLOTEL	6131	7001	7004		6141	7013	7016	
PLOTEL	6132	7097	7100		6142	7109	7112	
PLOTEL	6133	7193	7196		6143	7205	7208	
PLOTEL	6134	7289	7292		6144	7301	7304	•
PLOTEL	6135	7385	7388		6145	7397	7400	
PLUTEL	6136	7481	7484		6146	7493	7496	
PLOTEL	6151	7025	7028		6161	7037	7040	
PLUTLL	6152	7121	7124		6162	7133	7136	
PLOTEL	6153	7217	7220		6163	7229	72.32	
PLOTEL	6154	7313	7316		6164	7326	7328	
PLUTEL	6155	7409	7412		6165	7421	7424	
PLOTEL	6156	7505	7508		6166	7517	7520	
CMITE	123	7290	7291	7294	7295	7296	7298	7299
OMITI	123	7300	7302	7303	7306	7307	7308	7310
OMITE	.123	7311	7312	7314	7315	7318	7319	7320
OMITA	123	7322	7323	7324	7326	7327	7330	7331
OMITI	123	7332	7334	7335	7336	i ".::. !	:.~~	
OMITI	450	7289	7301	7313	7325			
OMITI	123456		7297	7305	7309	7317	7321	7329
OMITI	123456	7333						
PARAM	THNAME	SHMP?						
PARAM	THEOPY	J.C.M.F. Z.						
PARAM	NOSUH	2						***** *** * ***************************
PARAM	TPNAME9	SRMPI						
1. W(X W)A		SKMP I						

INPUT BULK DATA DECK ECHO

. 1	2 .	• 3		5	. 6	7		9 10
DM1	GF AC	0	2	1	2		1 .	1
DMI	GF AC	1	1	1.0				•
DMT	BFAC	0	2	1	2		1	1
DMI	LFAC	1	1	1.0			• -	•
DMI	KFAC	0	2	1	2		2	1
DMI	KFAC	1	1	1.0	1.0			· • -
CONROD	1	7001	7097	1	.00000	01		
MAT 3	· 1	10.566		•3				•
MPC	6050	6907	1	1.0	8134	1	-1.0	·····
SUPORT	8134	123	8352	123	8355	123		
DM I	EOR	0	2	1	2		6	·
DMI	EQH	. 1	1	01204	7 .9803	38196959	************	3.234396601
EE.01	17.8664							
DMI	EOR	2	1	•05985	.1973	28 .978504	-25.5831	-16.068781.02
CLU2	4.80504)			•		-	
DMT	EOR	3	1	•99813	3	06105	1.18502	34.45936003
GEU3	19.3744		-					
DMI	EOR	4	1	.99813	3	~.06105	-913934	43.5110EEQ4
81 U4	14.4423							
DMI	EQR '	:5	1	01204	7 .98033	38196959	28.4118	36.97908FQ5
6E05	185.7937	7						
DMI	EOR	6	. 1	•05985	.19732	28 .978504	-20.9608	-183.71461 06
61.06	38,3298	,						
DMI	EOR	7	j	.99813	3	06105	1.14885	24 . 3945GE Q7
6607	18.7829	•						
DM I	EQR	8	1	01204	7 .48033	38196959	-8-94825	36.979 CEQ8
8D 33	164.6032)·						
DMI	FOR	G	3	•05985	.1973	88 -978504	-20-9608-	-183.7146009
EEQ9	38.3298	1						
OMIT1	1	7004	7016	7028	704ó			
OMITI	23	7097	7109	7121	7133			• •
OM171	123	7100	7112	7124	7136		·	
CIMITI	23	7193	7205	7217	7229			
CMITI	123	7196	7208	7220	7232			
OM171	1	7292	/304	7316	7326		•	
OMIT1	23	7385	7397	7409	7421			
OMITI	123	7388	7400	7412	7424		200	
UMITI	1	7484	7496	7508	7520			
OMIT1	123	7803	7806	7811	7814	 		
UMITA	123	7867	7870	7875	7878			
ENDDATA		₹ -						
								·

TOTAL COUNT= 241

*** USER INFORMATION MISSIGN 207. BULK DATA NOT SOUTH DEAKSORT WILL BE-ORDER DECK.

	١,		. 5 0	RTED	ԱՍ L	K DA	TA F	Сно		
	CARD					-				
	COUNT . 1	2	•• 3	A	•• 5	6 .	7	. 8	. 9	. 10
	1 - CONROD	1 -	7001	7097	1	.0000001	1			
	2-CORD2C	100	696	74.738	-30-494		200.0	-30-494	6.138	ECSSRM
_	3- &CSSRM	74.738	0.0	0.0					****	
	4- CORD2R	101	696	74.738	-30.494	6 • 138	74.738	-28.570	115.6963	ERSSRM
	5-GRSSRM	200.	-30.494	6.138						
	6-CORD2R	696	0	-81.568	3.0	35.5985	-80.227	8.0	57.5136	ERSTANK .
	7-GRSTANK	68.25	0.0	48.432					£1	
	8-DMI	BFAC	0	2	1	2		1	1 .	
	9-DMI	BFAC	1	1	1.0					
	10-DMI	Łur:	Ö	2	1	2		6	9	
	11-DMI	I-OH	1	1	01204	7.98033A	19695	9-28-914	83.23439	8F01
-	12-6EQ1	17.8664		•						
	13-DMI	EOR	2	.1 .	•05985	.197328	.978504	-25.583	1-16.068	76E02
	14-6EQ2	4.8050		· <u></u>	•			2.4		
	15-DM1	LOR	3	1	•99813	3	06105	1.18502	34.4593	ED33
	16-8E03	19.374	4		•					
	17-DM1	E QR	4	1.	.99813	3	06105	•913934	43.5110	6E 04
	18-6E04	14.942	3							
	19-DMI	EUR	5	1	01204	P-980338	19695	9-28-411	836.4790	GEQ5
	20-6505	185.793	7 .							
*****	21-DM1	F-OK -	6	1	.05985	.197325	•978504	-20.9600	3-183-714	161 06
	55-EF00	38.329	8		•			٠.		
	1 23-DMI	EGR	7	3	•99813	3 .	00105	1.14885	24.3945	6007
	24-6EQ7	18.782	9					**		
	25-DHI	FOR	8	1	012047	3EE089.1	196959	9-8-94829	536 • 979	\$EQ8
	26-EFQ8	184-603	2							
	27-DM1	LOR	eg .	1	•05985	.197328.	.978504	-20.9608	3-183.714	461-09
	28-EEQ9	38.329	8.		•		-			
	: 29-DMI	GFAC	· 0	2	1	2		1	1	
	30-DM1	GFAC	1	1	1.0					
	31-DMI	KFAC	0 .	2	1	2	•	2	ĺ	
	32-DM1	KFAC	1	1	1.0	1.0				
	33-GRID	6901	100	9.750	180.000	25.242	100	450		
	34 - GR I D	6904	100	9.750	90.000	25.242	100	450		
·	35-GRID	6907	100	9.750	0.000	25.242	100	456		
	36-GRID	6910	100	9.750	-90.000	25.242	100	456	-	•
	37-GRID	7001	100	9.750	180.000	44.500	100	456		
	38-GRID	7004	100	3.180	180.000	44.500	100	456	•	
	39- GRID	7013	100	9.750	90.000	44.500	166	456		
	40-6610	7016	100	3.180	90.000	44.500	100	456		
	41- GRID	7025	100	9.750	0.0	44.500	100	456	•	
	42-GRID	7028	100	3.180	0.0	44.500	100	456		
	43 – GR 1 D	70.37	100	9.750	-90.000	44.500	100	456		
-	44-GRID	7040	100	3.180	-90.000	44.500	100	456		
	45- GR [D	7097	100	4.750	180.000	69.053	100	456		
	46-GRID	7166	100	3.180	180.000	69.053	100	456		
	47- GRTD	7109	100	9.750	40.000	69.053	100	456		
	48-GRID	7112	100	3.180	90.000	69.053	100	456		
	49-GRID	7121	100	9.750	0.0	69.053	100	456.		
	50-GR10	7124	100	3.180	0.0	69.053	100	456		

•		•		SORTE.	O BUL	K D	ATA	ЕСΗ	0				
	CARD												
	COUNT . I	2	• •	3 4	5	•• 6	7	••	8	• •	9	••	10
	51-CR 10	7133	100	9.750	-40.000	69.053	100	456					
	52-GRID	7136	100	3.180	-90.000	69.053	100	456	<u>.</u>				
	53-GR10	7193	100	9.750	180.000	93.607	100	456					
	54 = GKTD	7196	100	3.180	180.000	43.607	100	456					
	55- GR 1D	7205	100	4.750	90.000	93.607	100	45,6					
	. 56-GRID	7208	100	3.180	90:000	93.607	100	456					
`	57-GR1D	7217	100	9.750	0.0	93.607	100	.456					
	58- GR 10	7220	100	3.180	0.0	93.607	100	456					
	54-6KIU	7229	100	9.750	-90.000	93.607	100	456					
	60-GRID	7232	100	3.180	~90.000	93.607	100	456					
_	61-GRID	7289	100	9.750	180.000	118.16	0 100	<u> 0</u>					
_	62-GRID	7290	100	7.560	.180.000	118.16	0 100	456	· ,		•		
,	63-GKID	7291	100	5.370	180.000	118.16	0 100 .	456					7 -
	64-GHID	7292	100	3.180	180.000	118.16	0 100	456					
_	65-GRID	7243	100	9.750	150.000	118.16	0 100	0					
•	66-GKID	1294	100	7.560	150.000	118-16	0 100	456					
	67 - GR 1D	7295	100	5+370	150.000	118.10	0 100	456					
-	68-GRID	7296	100	3.180	150.000	118.16	0 100	456					
	69- GRID	7297	100	9.750	120.000	118.16	0 100	. 0					
	70-GR10	7298	100	7.560	120.000	118.16	0 100	456					
	71-GK10	7299	100	5.370		118.16		456	~~~				
	72 = GR1D	7300	100	3.180		118-16		456					
	73- GRID	/301	100	9.750	40.000	118.16		. 0					
	74 - GR I D	7302	100	7.560	90.000	118.16		456			-		
	75-GRID	7303	100	5.370	90.000	118.16		456					
	76- GR 1 D	7304	100	3.160	90.000	118-16		456					
-	77- GRID	7305	100	4.750	60.000	118.10		0				, .	
	78-6K10	7306	100	7.560	60.000	118.16		41,6					
	79-GR1D	7307	100	5.370	00.000	118-16		456					
• -	1:0-GH 1 D	7308	100	2.180		118.16		456				•	
	81- GR 10	7309	100	9.750	30.000	118.10		o o					
ζ,	82- GR 10	7310	100	7.560	30.000	118.16		456					
	83-6(1)	7311	100	5.370	30.000	116.16		456		****			
	84 - GR 10	7312	100	3.160	30.000	118.16		456					
•	85-GRID	7313	100	9.750	6.6	118.16		0	٠				
-	86- GRTD	7314	100	7.560	0.0	118.16		456					
	87-GRID	7315	100	5.370	0.0	118.16		456	•		;		
	88-GRID	7316	100	3.180	0.0	118.16		456			•		
-	89- GHID	7317	100	9.750		118.16		0					
	90- GRID	7318	100	7.560		118.16		456				•	
	91-GRID	7319	100	5.370		118.16		456					
-	92-GHID	7320	100	3.180		118.16		456					<u> </u>
	93-GRID	7321	100	9.750		118.16		436		-			
	93-GRIU 94-GRIU	7322	100	7.560		118.16		456		٠.,			
	95- GR ID								-·· -				
		7323	. 100	5.370		118.16		456	٠.			•	
	96~6KID	7324	100	3.180		118 • 16		456 6					
~	97- GRID	7325	100	9.750	-90.000			0					
	98- GRID	7326	100	7.560		118.16		456					
	99~ GR I D	7327	100	5.370		118.16		456	•				
·	100-GRID	7326	100	3.180	-40.000	118-16	9 100	456					

	*	5 t	1 H T F (, вог	K D	A T A	1 6 11	t)			
CARD							•				
COUNT • 1	•• 2	•• 3	• • 4	• • 5	•• "	• • ,	/	8 • •	9	• •	10
101-Gk1D	7329	100	9.750		0118-16		0				
102 - Gk 10	7330	100.	7.560		0118-16		456				
103-GKID	7331	100	5.370		0118-16		456				
104-GRID	7332	100	3.180		0118.16		456				
105-6KID	7333	100	4.750		0118.16		0				
106-GRID	7334	100	7.560		0118-16		456				
107-GR ID	7335	100	5.370	•	0118.16		456				
108-GR1D	7336	100	3.180		0118.16		456				
109-GRID	7385	100	9.750		142.71		456				
110-GR1D	7388	100	3.180		142.71		456				
111-GRID	7397	100	4.750	90.000	142.71		456				
112-GRID	7400	100	3.180	90.000	142.71		456				
113-GRID	7409	100	9.750	0.0	142.71		456				
114-6RTD	7412	100	3.180	0.0	142.71		456				
115-GRID	7421	100	9.750		142.71		456				
116-GRID	7424	100	3.180		142.71		456			•	
117-GR10	7481 .	100	9.750		167.26	**	456			•	
118-GRID	7484	100	3.180	180.000		•	456				
119-GR10	7493	100	9.750	90.000	167.26		456				
120-GR1D	7496	100	3.180	90.000	167.26		456				
121-GRID	7505	100	9.750	0.0	167.26		456				
155-CKID	7508	100	3-180	0.0	167.26		456	•			
123-GR1D	7517	100	9.750	*	167.26	_ '	456				
124-GRID	7520	100	3.180		167.26		456				
125-GR10	7801	100	9.75	180.0	196.25	100	. 456				
126-GR1D	7603	100		131.383		100	456	•			
127-GRTD	7805	100	9.75	40.0	196.25	100	456				
128-GR10	7606	100		71.383	196.25		456				•
129-GRID	7609	100	9.75	0.0	196.25	100	456		٠		100
130-GRID	7811	100	9.43657			100	456	. ,			
131-GRID	7813	100	9.75	-90.0	196.25		456	1			
132-GRID	7814	100		7 -108-61			456				
133-GR1D	7865	100	15.25	180.0	217.94	100	456			٠.	
134-GRID	7867	100		7131.383		100	456		٠,٠,		
135-GRID	7869	100	15.25	90.0	217.94	100	456				
136-GRID	7870	100	,	771.383	217.94	100	456				
137-GR1D	7873	100		0.0	217.94		456				
138-GRID	7875	100		77-48-617		100	456			- 1	-
. 139~GR10 140~GR10	7877 - 7878	100	15.25	-90.0	217.94	100	456	,			
. 141-6410	•	-	4 1	7-108-61		100	456		•		
142-GRID	8134	696	99.98	-14.410		100	456				
142-GRID	8352 8355	101	196.25			101	456.				٠.
144-MAT1		101 10.666	196•25	13.8725	5-Y•73	101	456				
145-MPC	4.05.0	10.566	1	•3	0174	· · · · ·				•	
146-0MITI	- 6050, - 1 - ∞	- 6907 - 7004	7016	1.0	8134	•	-1.0	, .	-		
147-0M1T1	1	7004 7242	7304	7028	7040						
148-DM111		7484	7496	7316	7328	-:		· · · · · · · · · · · · · · · · · · ·	·		
149-0MIT1	23	7047	7109	7508 7121	7520		•				
150-0M111	23	7193	7109 7205	7121 7217	7133						
100 (1111		1 2 7.7			7229						:

CARD		é	окть	р в и	L. K D	A T A	E C H D		
CUUNT . I	2	j	. 4	•• 5	6	7	. 8	. 9	. 10 .
151-0M171	23	7385	7397	7409	7421		-		
152-DM1T1	323	7100	7112	7124	7136				
153-0M1T1	173	/196	72'0h	1220	1232				
154-08111	123	1290	1291	7244	7295	1246	72411	7,140	
155-0MTT1	led	7300		7.103	7306	7307	7308	7310	
156-UMIT1	123	7311	7312	7314	7315	7318	7319	7320	
157-0M1T1	123	7322	7323	7324	7326	7327	7330	7331	
158-0M1T1	123	7332	7334	7335	7336				•
159-0MITI	123	7388	7400	7412	74:4				
160-0M171	12.3	7803	7806	7811	7814	•			
161-08111	123	7867	7870	7875	7878				
162-0M1T1	456	7289	7301	7313	7325				
163-0M1T1	123456	7293	7297	7305	7309	7317	7321	7329	
164-UMIT1	125456	7333		, ,					
165-PARAM	NUSUR	5							
166-PARAM	SUHKA	1							
167-PARAM	THOUPY	i			•	•		,	•
168-PAHAM	TPNAME	SRMP2							
169-PARAM	TPNAME 9								
170-PLUTEL	6001	6901	7001		6011	6904	7013	•	
171-PLOTEL	6005	7001	7097		6012	7013	7109		
172-PLOTEL	6002	7007	7193		6013	7109	7205		
	6004		7284						
173-FLUTEL		7193			6.014	7 a C C C C C C C C C C C C C C C C C C	7,101		
174-PLOTEL	6005	7289	7385		6015	7301	7 107		
175-PLUTEL	6006	7385	74H]		6016	7347	7493		
176-PLUTEL	6007	7481	7801		6017	7493	7805		
177-PLOTEL	4606	7801	7865	,	6016	7805	7869		
178-PLOTEL	6004	7603	7867		6019	7811	7875		
179-PLUILL	6021	6907	7025		6031	6910	7037		
180-PLOTEL	6022	7025	7121		6032	7037	7133		•
181-PLOTEL	6023	7121	7217	•	6033	7133	7229		
182-PLOTEL	6024	7217	7313		6034	7229	7325	*	
183-PLOTEL	6025	7313	7409		60.35	7325	7421		
184-PLUTEL	6026	7409	7505		6036	7421	7517		
185-PLOTEL	1.027	7505	7809		6037	7517	7813		
186-PLOTEL	6028	7809	7873		6038	7813	7877	•	
187-PLOTEL	6029	7806	7870		6039	7814	7H78		
188-PLOTEL	6041	6901	6904		6051	7097	7109		
189-PLUTEL	6042	6904	6907		6052	7109	7121		
190-PLUTEL	6043	6907	0910		6053	7121	7133		
191-PLOTEL	6044	6910	6901		6054	7133	7097		
192-PLOTEL	6045	7001	7013		6055	7193	7205	•	•
193-PLOTEL	6046	7013	7025		6056	7205	7217		•
194-PLOTEL	6047	7025	7037		6057	7217	7229	•	
195-PLOTEL	6048	7637	7001		6056	7229	7193		
196-PLOTEL	6061	7289	/301		6065	7385	7347		
197-PLOTEL	6062	7301	7313		to O 4x4x	7347	7409		
198-PLUTEL	6003	7313	7325		6067	74.09	7421	* * ***********	· · · · · · · · · · · · · · · · · · ·
199-PLOTEL	6064	7325	7289		6068	7421	7385		
200-PLUTEL	6071	7481	7493		60H1	7801	7803	•	
			~					· ·	

72

PQ:

17.1 2.1

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		5 (RIE	b H. U. I	к в	A I A	1 () ()	
CARL								
CUUNT . 1	•• 2	• 3	4		. 6	7	н	9 10
201-PL07EL	6072	7493	7505		6082	7803	7805	,
202- PLUTEL .		7505	7517		6083	7805	7806	
203- PLUTEL	6074	7517	7481		4064	7806	7809	
204- PLUTEL	6091	7865	7867		6085	7809	7611	
205- PEUTEL	6648	7867	7869		6086	/811	7813	
206- PLOTEL	6093	7869	7870		6087	7813	7814	en e e e e e e e e e e e e e e e e e e
207- PLOTEL	6094	7870	7873		6088	7814	7801	
208- PLOTEL	6095	7873	7875		6075	6907	8134	
209- PLUTEL	6096	7875	7877		6076	7805	8352	
210- PLOTEL	6097	7877	7878		6077	7869	835b	•
211-PLOTEL		7676	7865		6078	7613	8355	
212- PLUTEL	6101	7004	7016		6111	7196	7208	
213-PLUTEL	6162	7016	7028		6112	7208	7220	
214-PLOTEL	6103	7023	7040	•	6113	1220	7232	
215- PLOTEL	C104	7040	7004		0114	7232	7196	
216-PLUTLI	6105	7100	7112		0115	7292	7304	
217- PLOTEL	6106	7112	/124	· · · · · · · · · · · · · · · · · · ·	6116	7304	7316	
218-PLUTEL	6107	7124	7136		6117	7316	7328	
219-PLUTEL	6108	7136	7100		6118	7328	7292	
220- PLOTEL	612.1	7388	7400		0,10	7.32.0	1291	
221- PLUTLL	6122	7400	7412		***************************************			
222- PLUTEL	0123	7412	7424		•			•
223- PLOTEL	6124	7424	7388			•		
224-PLOTEL	6125	7484	7496				e de La Laberti	e e pe
225- PLUTEL		7496	7508					
226- PLOTEL	6127	7508	7520					
227- PLUTEL	6128	7520	7484					ستنائن بازد يجسس
226- PLOTEL	6131	7001	7004	•	6141	7013	7016	
229- PLOTEL	6152	7097	7100		6142	7109	7112	and the second second
230- PLOTEL	6133	7193	7196	سحدي بناجين	6143	72.05	7208	
231- PLOTEL	0134	7289	7292	•	6144	7301	7304	
232- PLOTEL	6135	7385	7388	:	6145	7397	7400	•
233- PLOTEL	6136	7481	7484		6146	7493	7496	
234- PLOTEL	0151	7025	7028		6161	7037	7040	
235- PLOTEL	6152	7121	7124		6162	7133		
236- PLUTEL	6153	7217	7220			7229	7136 7232	
237- PLOTEL	61.55 6154	7313	7316	•	6163			•
238- PLUTEL	6155	7409	7412		6164	7325	732H	
230- PLUTEL	6156	7505	7508		6165	7421	7424	1
239- PERFE	6136 6134 . `			104	6166	7517	7520	
INDUATA	0134	123	F352	123	46.24	123	*	
THUMPHIA		•						

SOLID ROCKET BOOSTER COMBINED MODEL PHASE II PT. 2 116 DEGREES OF FREEDOM Z704247

NASTFAN EXECUTIVE CONTROL DECK ECHO

```
ID PHASES SENPS
TIME
            €0
           CISP
AFP
           7.0
SCL .
DIAG 2.7.8.13.14.19.21.22
ALTER 2.2
FILE
         CCC=SAVE/CMC=SAVE
PARAM
         //C.N.NCF/V.N.TRUE=-1
         //C.N.NOP/V.Y.NOK4=-1
FARAM
         //C+++NCP/V+Y+NOEG=-1
PARAM
FARAM
         //(.N.NCP/V.Y.TPCCPY=-1
ALTER 17.17
SAVE
         JUNEFLCT: PLTFLG. PFILE
ALTER 25.47
CHKENT EST.ECFT.GPCT.GET
ALTER 52.87
INPUTT1 /.../C.N.-3/C.N.S/V.Y.TENAMES
PURCE
         K4AA/NCK4/EAA/NOBG
CCND
         LTII.MPCF1
I NFUTT1
          /6M..../C.N.O/C.N.9 $
LABEL
         LTII
        LT12.CMIT
CCND
I NPUTT1
          /60 .... / C. N. O/C. N. 9 $
LABEL
        LTI2
CCND
         LTI3.SINGLE
INPUTT1 /KFS,.../C.N.0/C.N.9 $
LABEL
        LTIS
INPUTT1 /KAA. . AA. . . . / C. N. 0 / C. N. 9 $
        LTI4.NCK4
CCNC
INPUTTÍ /K444.../C.N.0/C.N.9 $.
        LTI4
LABEL
ÇEND
        LITE.NOEG
INPUTT1 /EAA..../C.N.0/C.N.9 $
LABEL
        LT 15
        EM. CME.RG. GC. COD.KES. OPC.USET.KAA,MAA,K4AA.HAA
CHKENT
ALTER 103
        LIDS.TRCCRY .
CCNC
CUTPUT: ....//C.N.-T/C.N.O/V.Y.TPNAME
LABEL
        1.103
ALTER 128:126
       I LAMAINCEIM I
CCMD
        //(jh.mm///,h.+m+.-1
LAHAM
JUMF
        Ligge
LABEL
        LIZAL
FARAM
        //C.N.N JP/V.N.KCEK2=-1
LAHEL
        L128E
ALTER
      133,133
        USFIC.GM.GC.KAA.BAA.MAA.K4AA.K2PP.M2PP.H2PP/KDD.HDD.MDD.GND.
GKAC
        GCC.KQDC.42CC.B2DC/C.N.CMPLEV/C.N.DISP/C.N.DIRECT/C.Y.G=0.0/
```

```
C.N.O.O/C.N.C.O/V.N.NCK2PP/V.N.NOM2PP/V.N.NCH2FP/V.N.NPCFI/
         V.N.SINGLE/V.N.OMIT/V.N.NOUE/V.Y.NOK4/V.Y.NCBG/V.N.KDEK2/C.N.-15
ALTER 135.135
         EZCC.ECD/NCEC/M2CD.MDC/NDGPCT/K2DD.KDD/KDEKZ
EGUIV
ALTER 155
         CFF16.CPGE.RPFIG.CPHIN.CGMN.CPHIM.PHIG.CNSF.CPHIS.CPHIF/JUMPFLOT
BURGE
         CFOA, CPHIO, CFHIA, PHIN/JUMPPLOT
FURGE
         LISS.JUMPPLCT
CCNC
EUEGE
         CECE/NOUE
ECUIV
         CFFIF, CPHIG/NOUE
         LISSA.NCUE
CCND
VEC
         USETC/CFCE/C.N.P/C.N.G/C.N.E
         CFHIF., CPCE/CPFIG.../C.N.1/C.N.2/C.N.2 $
FARTN
ECUIV
         CELICARELIGITAUE
PURGE
         CFHIN.COMN.CFFIM.PHIG.CNSF.CPHIS.CPHIF/IRLE
        CFCA.CFHIO.CFFIA.PHIN/TRUE
PURGE
JUMP
         LISEC
LABEL
         LISEA
         (GNN.CFHIN.FHIG/MPCFI
PURGE
ECUIV
         CFF 1C. CFH IN/MPCF1
         L155E.MPCF1
CCND
VÉC
        USET/CGMN/C.N.G/C.N.M/C.N.N
         CFF 16.. CGMN/CFF IM. CPH IN../C.N. 1/C.N. 2/C.N. 2/C.N. 2/C.N.2 $
PARTN
         CFHIM. CPHIN. ... CGMN/PHIG/C.N. 1/C.N. 2/C.A.2 $
MERGE
         FFIG. RFFIG/TRUE
EGUIV
         CNSF.CPFIS.CFFIF/TRUE
PURGE
PURGE
         CFCA.CPHIG.CFHIA.PHIN/TRUE
        LISSE
JUMP
LABEL
         LIEEE
PURGE
         CASFICPELS, PEIN/SINGLE
E GU IV
         CFFIN.CFFIF/SINGLE
CCNC
         LISSC.SINCLE
        LSET/CNSF/C.N.N/C.N.S/C.N.F
VEC
PARTN
         CFF IN., CNSF/CFHIS. CPHIF../C.N. 1/C.N. 2/C.N. 2/C.N.2 $
WERGE
        CFHIS. CPHIF. . . . CNSF/PFIN/C.N. 1/C.N. 2/C.N.2 $
E CU IV
          FEIN. FFHIGATFUE
PURGE
        CFCA.CPHIC.CFHIA/TRUE
        L155C
JUMP
LABEL
        £1550
        CFC#, CPFIC, CFFIA, FPFIG/CMIT
PURGE
CCND
        LISS.CHIT
        USET/CFO4/C.N.F/C.N.D/C.N.A
VEC
PARTN
         CPH1F..CFUA/CPHIU.CPHIA../C.N.1/C.N.2/C.N.2/C.N.2/C.N.2 $
MERGE
        CFFIC. CPHIA. . . . CFCA/RPHIG/C.N. 1/C.N. 2/C.N. 2 $
LAPEL
        L1550
CHKENT
        FFF16
PARAM
         //C.h.SUE/V.N.SCAL AR/V.N.N.SIL/V.N.LLSET
        SIL.SIP/SCALAR/EGPCT.EGPDP/SCALAR
EGU I V
        LISSE.SCALAR
CCND
        ECFCT.SIL/ECFDF.SIP/V.N.LUSET/V.N.LUSEP &
```

PLTTRAN

NASTRAN EXECUTIVE CONTROL DECK ECHO

SAVE LUSEF LABEL L 155E CHKENT ECPOF .S IP. CASEXX.CSTM...EGFXIN.SIL...BGPDP...RPHIG.....CPHIG...PPHIG. SCR2 C.N.STATICS 1 CFP CFF16....//V.N.CAFENC SAVE CARCNO & FLTP: F. GPSETS, ELSETS, CASEXX, BCPDT, EGEXIN, SIF, PFHIG, /PLOTX2/V.N. FLCT NSIL/V.N.LJSET/V.N.JUMPPLCT/V.N.PLTFLG/V.N.PFILE & SAVE FFILE FFTMSG FLCTX2// \$ LABÉL L155 -CCND L155F.TFCOPY CUTFUT1 CFHIP.RPHIG. .. // \$ LABEL L155F ALTER 168,169 ENCALTER CEND

1

FHASE 1 (FART 2)

```
CASE CONTROL
                                                    DECK
CAFE
CCUNT
        TITLE = PHASE 1 (PART 2 )
1
        SUSTITUE = SRM & PROPELLANT
ź
        MAXLINES = 50CCC
3
        MPC = 6050
ECHO = EOTH
4
 5
        CMETHOD = 1 -
 €
       VECTOR = ALL
LABEL = REAL PART OF COMPLEX EIGENVECTORS
 ?
                                                                   SUBCASE
       CUTPUT (PLOT)
                                                                     MODES = 12
        SET 1 = ALL
10
        FLOTTER CALCOMP 765.105
11
        *XES = NY.X.Z
VIEW = 30.C.48.C.C.0
12
12
        VIEW
     FIND SCALE, ORIGIN 1.SET 1
14
15
        FLOT
        MAXIMUM DEFORMATION 5.0
16
        FIND SCALE ORIGIN 2.SET 1
17
18
        FLOT STATIC DEFORMATION 1 THEL 14.SET 1.OPIGIN 2.SHAPE.VECTOR XY7
       EEGIN BULK
19:
```

200

為

潮

REAL FART OF COMPLEX EIGENVECTORS

INPUT BULK DATA CECK ECHO

				c	4			•	
. 1 •	. 2 .	. 3 . 7001	7057	. 5 .	6 6	• ′	•	• • • •	10 .
CONEGD	l ,		1037		.0000001				
MAT1	1	10.586 0	-01 5401	• 3	15 5005			E3 E136000	TANIN
CORDER	696	C.C	-81.5683	0• ó	J5-5985	-50 - 22 / 6	3 0.0	57.51366RS) I PINT
ERSTANK	68.25		48.432	70 404	6 1 70	200 3	20 404		20014
COFC2C	10 C	. 656	74.738 -	-30.494	6.138	200.0	-30.494	e.13P BC	MHE
& CS SRM	74.738	C • O	0.0	30 404		74 730			. coni
CORDER	101	656	74.738 -	-30.494	6.138	74.738	-28.5701	15.6963669	. 2 t- w
ERSSRM		-3C.454	6.138						
GR ID	.6901	100		180.000	25.242	100	456		
GR IO	6964	100	9.150	90.000	25 . 242	100	456	•	
GF ID	6907.		9.750	0.000	25 • 242	100	456		
GR ID	6910	100		-90.C00	25.242	100	456		
GR ID	7001	100		180.000	44.500	100	456		
GP ID	7004	100		180.000	44.500	100	456		
GR ID	7013	100	9.750	90.000	44.500	100	456		
GP ID	7016	1 C C	3.180	90.000	44 • 500	100	456		
GRID	7025	100	5.750	0.0	44.500	100	456		
GR ID	7028	100	3.180	0.0	44 .500	100	456.	,	
GR ID	7037	100		-90.000	44 • 500.	100	4.56		
GRID	7040	100		-90.000	44.500	100	456		
GR ID	7097			180.000	69.053	100	456		
GR ID	7100	100		180.000	69.053	100	456		
GRID	7109	100	9.750	90.000	69.053	100	456	•	
GRID	7112	100	3.190	90.000	69 • 053	100	456		
GRID	7121	100	9.750	0.0	69.053	100	456		
GRID	7124	1 C C	3.180	0.0	69.053	100	456		
GR ID	7133	100		-90.000	69.053	100	456		
CH ID	7136	100		-90.000	69.053	100	45€		
GR ID	7193	1 C C		180.C00	93.607	100	456		
GR ID	7196	100		180.000	93.607	100	456		
GR ID	7205	100	5.750	90.000	93.607	100 .	45/	•	
GR ID	7208	100	3.180	90.000	93.607	100	.456		
GR ID		100	9.750	0.0	93.607	100	451		
GR 10 ·	7220	100	3.180	0.0	93.607	100	456		
GR ID	7225	100		-90.000	93.607	100 -	456		
GR ID	7232	100		-90.000	93.607	100	456	•	·
GRID	7289	100		180.000	118.160	100	0		
GR ID	7250	100		180.000	118.160		456		
GR ID	7251 7252	100		180.000	118.160	100	456		
CD ID	. 1293	100			118.160	100 .	45 <i>6</i>	•	
GR ID	•	100		150.000	118.160	100	0		
GR ID	7294	100			118.160	100	456		
CR ID	7255	100		150.000	118.160	100	456		•
GRID	7296	100			118 160	100	456		
GRID	7257	100		120.000	118.160	100	U Aca		
GR ID	7256	100			118.160	100	456		
GR ID GR ID	7259	1 C C		120.000	118.160	100	457 . 456	•	
••				120.000	118.160	100			
CRID	7301	100	9.750	90.000	118.160	100	0 .	. *	
GP ID	7302	100	7.560	30.000	118.160	1 C O	456		

SRM & FRCFELLANT

	1	INPUT	ELLK	DATA	CECK	E C	+ C	
. 1	2	. 3	4	5 6	7	8	• •	9 10 .
GRID	7303	100	5.370 90	.000 118.160	100 4	56		• •
GR ID	73C4	100	3.180 90	.000 118.160	100 4	56		
GRID	7365	100	5.750 60	.000 118.160	100 0		,	•
GRID	7306	10C	7.560 60	.000 118.160	100 4	56	* .	:
GRID	7367	100		.000 118.160		56		
GRID	73(8	1 C C		.000 118.160		56		
GRID	7309	100		.000 118.160	100 0			•
GRID	7310	100		.000 118.160		56		
GR ID	7311	100		.000 118.160		56		•
GR ID	7312	100		.000 118.160		56		
GR ID	7313	100		.0 118.160	100 0		·	
GR ID	7314	100	, ,	.0 118.160		56		
GRID	7315			.0 118.160		56		
GRID	7316	1 C O		.0 118.160		56		
GRID	7317	100		.000 118.160				
GRID	7318	100		.000 118.160		56		•
GRID	7319	100		.000 118.160		56		•
GR ID	7320	100		.000 118.160		56		
GR ID	7321	100		.000 118.160	100 0			
	7322					5€		
GRID GRID	7323	100 100		.000 118.160 .000 118.160		56	-	•
	7324					56		
GRID		100		.000 118.160				
GR ID	7325	100		.000 118.160	100 0		•	
GR ID	7326	100		.000 118.160		56 54		
_GR ID	1327	, -		.000 118.160		56	•	
GR ID	7328	100	the second secon	.000 118.160		56	• • •	
GRID	7329	100		.000 118.160	100 0		•	
GRID	7330	100		.000 118.160		56		
GR ID	7331	100		.000 118.160		56		
GRID	7332	100		.000 118.160		5.6	•	
GR ID	7233	100		.000 118.160	100 0			
CR ID	7334	100		•000 118 • 160		56		
GR ID	7335	100		.000 118.160		56		
GRID	7336	1 C C		.000 118.160		56		
GRID	7365	100		.000 142.713		56		
GRID	7368	•		.000 142.713		56		
€¤ 1D	7397	. "		.000 142.713		56		
GR ID	74 CC	100		.000 142.713		5 ,6		
GR IO	7409	1 C O	\$•750 O	.0 142.713	100 4	56	•	•
GRID	74 12	100		•0 142.713		56		
GRID	7421	1 C C	9.750 -90	.000 142.713		56		
GRID	7424	, 1CO		.000 142.713		56		
GR ID	74 € 1	100	5.750 180	•000 167 • 267	100 4	56		
GR ID	7464	100		.000 167.267		56		
GR ID	7453	100	9.750 90	·000 167·267	-100 4	56		
GRID ·	7496	100		.000 167.267		56		
GR:ID	75,05	1 C C	5.750 0	.0 167.267	100 4	56		•
GRID	7508	1 C C	3.130 0	.0 167.267	100 4	56		•
GRID	7517	100	5.750 -90	.000 167.267	100 4	56		
CR ID	7520	100	3.180 -90	.000 167.267	100 4	56		

FHASE 1 (FART 2)

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REAL FAFT OF COMPLEX EIGENVECTORS

INPUT BULK DATA DECK FORC

						•						
• 1		. 3	4 .	. 5	6	7	• • 8	• •	ç	• •	10	•
GR ID	7 <i>6</i> C 1		9.75		96.25	100	454					
GRID	7863	1 C C	9.43657	7 131.383,1	96.25	100	456					
GRID	78 (5	100	5.75	90.0	96.25	100	456					
GRID	7866	. 1CO	\$ 43657	71.3831	96.25	100	45€					
GR ID	7809	100	S.75	0.0 1	96.25	100	456					
GR ID	7611	100	9.43657	7 -48.6171	96.25	100	45€					
GR ID	7813	100	5.75	-90.0 1	96.25	100	456					
GRID	7814	100	9.43657	7-1 08-6171	96.25	100	456					
GRID	1865	icc	15.25	180.0 2	17.94	100	456					
GBID	7867	100	14.75977	7 131.3832	17.94	100	456					
GRID	78.69	100	15.25	90.0 2	17.94	100	456					
6610	7 <i>6</i> 7 C	100	14.75977	71.3832	17. 94	100	456					
CRID	7673	1 C C	15.25	0.0 2	17.94	100	456					
GR ID	7675	- 1 C C	14.75577	7 -48.6172	17.94	100	456	•				
CHID	7877	100	15.25	-90.0 2	17.94	100	457					
GRID	7878	100	14.75577	7-108-6172	17.94	100	456				•	
CR ID	8134	656	99.9E	-19.4107	3.907	1 100	454					
GRID	€3€2	1 (1	196.25	13.87259	9.75	101	456					
GR:ID	8355	1 C 1	196.25	13.87258	-9.75	. 101	456					
PLOTEL	€OC1	6561	7001		6011	6904	.7013	•				
PLOTEL	6002	7061	7697		6012	. 7013	7109					
PLOTEL	6003	7057	7193		6013	7109.	7205					
PLOTEL	6004	7193	7289		6014	7205	7 30 1	•				
FLOTEL	€¢¢5	7285	7385		6015	7.301	7397					
PLOTEL	ecce	7365	7421		6016	7397	7493					
PLOTEL	€007	7461	76C1		6017	7493	7805	-		-		
PLOTEL	6CCE	7861	7865		601A		7865					
PLOTEL	€021	6517	7025		6031	6910	7037					
PLOTEL	€C22	7025	7121		6032	7037	7133					
PLOTEL	€ 023	7121	7217	,	6033	7133	7229					
PLOTEL	€C24	7217	7313		6034	7229	7325					
PLOTEL	6025	7313	.7469		6035	7325	7421					
PLOTEL	€02€	7469	7505		6036	7421	7517		,			
PL ITEL	6027	7505	7809.		6037	7517	7813					
PLOTEL	6028	76(5	7873		6038	7813	7877					
PLOTEL	e C C S	7863	7867		501.9	7811	7875	100				
PLOTEL	6025	7806	7870	•	6039	7814	7878					
PL OT EL	é C 4 1	ESC1	6904	•	5051	7097	7109					
PLOTEL	6042	6904	6907		6052	7109	7121					
PLOTEL	6043	6567	651C		6053	7121	7133					
PLOTEL	6044	6910	6501		6054	7133	7097					
PLOTEL	6 C4 5	70C1	7013		6055	7193	7205					
PLOTEL:	€04€	7013	7 C 2 5	•	6056	7205	7217					
PLOTEL	6047	7025	7037	• .	6057	7217	7229				,	
PLOTEL	EC4E	7037	7661		6058	7229	7193					
PLOTEL	£ C 6 1	7265	7301		6065	7385	7397					
PLOTEL		7301	7213		6066	7307	7409					
PLOTEL	6063	7313	7325		6057	7409	7421					
PLOTEL.	6064	7325	7289	•	6 0 68	7421	7.365					
PLUTEL	6 C 7 I	7481	7493		6081	7801	7803					
		• . •						:				

FHASE 1 (FART 2)

REAL FART CF COMPLEX EIGENVECTORS

INPUT BULK DATA CECK FCFO

• 1	2 .	. 3 ¹	• • 4	• • 5	• • 6	7	8	5	1C .
PLOTEL	€072	7453	7505		6082	7803	7805		
FLOTEL	6073	7505	7517		6083	7805	7606		
PLOTEL	6C74	7517	7461		6084	7806	7809		
PLOTEL	6051	7.665	7867		6085	7809	7811		
PLOTEL.	6052	7867	7869		6086	7811	7613		•
PLOTEL	6683	7865	7870	•	6087	7813	7814		
PLOTEL	6054	7 E 7 O	7£73		6088	7814	7801		
PLOTEL:	ecs e	7673	7875	* * * *	6075	6907	8134		
PLOTEL	6056	7675	7677	•	6076	7805	8352		
PLOTEL	6097	7.877	7878		6077	7809	8355	• •	
PLOTEL	6098	7678	7865	•	6078	7813.	8355		
PLOTEL	€101	7664	7016		6111	7196	7208		
PLOTEL	6,102	7016	7028		6112	7208	7220		
PLOTEL	6103	7028	7640		6113	7220	7232	•	
PLOTEL	6104	704C	7004		6114	7232	7196		•
PLOTEL	61.05	7100	7112		6115	7292	7304	,	
PLOTEL	€16€	7112	7124		6116	7304	7316		
FLOTEL	6107	7124	7136		6117	7316	7328		
PLOTEL	€108	7136	71 C C		6118	7328	7292		
PLOTEL	€121	7386	7400						
PLOTEL	16122	7466	7412						
PLOTEL	6123	7412	7424						
PLOTEL	6124	7424	7388		• .		,		
FLOTEL	6125	7464	7456						
PLOTEL	6126	7456	7508				• ,		,
PLOTEL	6127	7508	7520				•		7
PLOTEL	€ 12€	752C	7484	•				,	
PLOTEL	6131	7001	7004	•	6141	7013	7016	•	-
PLCTEL	6132		3100						
PLOTEL		7.057	7100		6142	7109	7112		•
PLOTEL	€133	7057 7153	7190			7109 7205	7112 7208		
		7193	7156		6143				
PLOTEL					6143 6144	7205	7208		
	6134	7193 7289	7196 7292		6143	7205 7301	7208 7304	,	
PLOTEL	6134 6135 6136	7193 7289 7385	7196 7292 7388		6143 6144 6145	7205 7301 7397 7493	7208 7304 7400		
PLOTEL PLOTEL	6134 6135 6136	7193 7289 7385 7481	7156 7292 7388 7484		6143 6144 6145 6146	7205 7301 7397 7493	7208 7304 7400 7496		
PLOTEL PLOTEL PLOTEL	6134 6135 6126 6151	7193 7289 7385 7481 7025	7156 7292 7388 7484 _7628		6143 6144 6145 6146 6161	7205 7301 7397 7493 7037 7133	7208 7304 7400 7496 7040		
PLOTEL PLOTEL PLOTEL FLOTEL	6134 6135 6136 6151 6152	7193 7289 7385 7481 7025 7121	7156 7292 7388 7484 7628 7124		6143 6144 6145 6146 6161	7205 7301 7397 7493 7037 7133	7208 7304 7400 7496 7040 7136		
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL	6134 6135 6136 6151 6152 6153	7193 7289 7385 7481 7025 7121 7217	7156 7292 7388 7484 7028 7124 7220		6143 6144 6145 6146 6161 6162 6163	7205 7301 7397 7493 7037 7133 7229	7208 7304 7400 7496 7040 7136 7232		
PLOTEL PLOTEL FLOTEL PLOTEL PLOTEL PLOTEL	6134 6135 6136 6151 6152 6153 6154	7193 7289 7385 7481 7025 7121 7217 7313	7156 7292 7388 7484 7028 7124 7220 7316		6143 6144 6145 6146 6161 6162 6163 6164	7205 7301 7397 7493 7037 7133 7229 7325	7208 7304 7400 7496 7040 7136 7232 7328		
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL	6134 6135 6136 6151 6152 6153 6154 6155	7193 7289 7365 7481 7025 7121 7217 7313 7409	7156 7292 7388 7484 7028 7124 7220 7316 7412	7294	6143 6144 6145 6146 6161 6162 6163 6164 6165	7205 7301 7397 7493 7037 7133 7229 7325 7421	7208 7304 7400 7496 7040 7136 7232 7328 7424	7255	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL	6134 6135 6126 6151 6152 6153 6154 6156	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505	7156 7292 7388 7484 7028 7124 7220 7316 7412 7508	7294 7303	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520	7255 7310	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI	6134 6135 6136 6151 6152 6153 6154 6155 6156	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7290	7156 7292 7388 7484 7628 7124 7220 7316 7412 7508 7291		6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298		
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI OMITI	6134 6135 6136 6151 6152 6153 6154 6156 6156 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7805 7290 7300	7156 7292 7386 7484 7628 7124 7220 7316 7412 7508 7291 7302	,7303	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308	7310 7320	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI OMITI	6134 6135 6136 6151 6152 6153 6154 6155 6156 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7290 7300 7311	7156 7292 7388 7484 7028 7124 7220 7316 7412 7508 7291 7302 7312	,7303 7314	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319	7310 7320	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI OMITI OMITI	6134 6135 6136 6151 6152 6153 6154 6155 6156 123 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7290 7300 7311 7322	7156 7292 7300 7404 7020 7124 7220 7316 7412 7500 7251 7302 7312 7323	,7303 7314 7324	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315 7326	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319	7310 7320	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI OMITI OMITI OMITI OMITI	6134 6135 6136 6151 6152 6153 6154 6156 6156 123 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7250 7300 7311 7322 7332	7156 7292 7388 7484 7628 7124 7220 7316 7412 7508 7251 7367 7312 7323 7334	.7303 7314 7324 7335	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315 7326 7336	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319	7310 7320	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI OMITI OMITI OMITI OMITI OMITI	6134 6135 6136 6151 6152 6153 6154 6156 6156 123 123 123 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7290 7300 7311 7322 7332 7289	7156 7292 7388 7484 7628 7124 7220 7316 7412 7508 7291 7362 7312 7323 7334 7361	7303 7314 7324 7335 7313	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315 7326 7326 7325	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318 7327	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319 7330	7310 7320 7331	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI	6134 6135 6126 6151 6152 6153 6154 6156 123 123 123 123 123 123 123 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7290 7301 7311 7322 7332 7289 7293	7156 7292 7388 7484 7628 7124 7220 7316 7412 7508 7291 7362 7312 7323 7334 7361	7303 7314 7324 7335 7313	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315 7326 7326 7325	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318 7327	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319 7330	7310 7320 7331	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI	6134 6135 6136 6151 6152 6153 6154 6156 123 123 123 123 123 123 123 123 123 123	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7250 7311 7322 7332 7289 7293 7293	7156 7292 7386 7484 1628 7124 7220 7316 7412 7508 7251 7362 7312 7323 7334 7361 7257	7303 7314 7324 7335 7313 7305	6143 6144 6145 6146 6161 6162 6163 6164 6165 6166 7295 7306 7315 7326 7325 7309	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318 7327	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319 7330	7310 7320 7331	
PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL PLOTEL OMITI	6134 6135 6136 6151 6152 6153 6154 6155 6156 123 123 123 123 123 123 123 123 123 456 123456 605 C	7193 7289 7365 7481 7025 7121 7217 7313 7409 7505 7250 7311 7322 7332 7289 7293 7333 6507	7156 7292 7388 7484 7628 7124 7220 7316 7412 7508 7291 7302 7312 7323 7334 7301 7257	7303 7314 7324 7335 7313 7305	6143 6144 6145 6146 6161 6162 6163 6164 6165 7295 7306 7315 7326 7336 7325 7309	7205 7301 7397 7493 7037 7133 7229 7325 7421 7517 7296 7307 7318 7327	7208 7304 7400 7496 7040 7136 7232 7328 7424 7520 7298 7308 7319 7330	7310 7320 7331	

機構

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REAL FART OF COMPLEX ELGENVECTORS

INPUT BULK DATA DECK FORD

					*		•								
. 1	٠.	. ž	• • 3. ·	4	5	6	• •	7	• •	A	• •	Ç		10	
OM LT 1	l	123	71CC	7112	71 24	· 7136									
CM IT I	ı	23	7153	7205	7217	7229									
OMITI	٠.	123	7156	7268	7220	7232									
OMITI	1.	. 1	7292	7304	7316	7328									
OMITI	1	2.3	7385	7357	7409	7421									
CMIT	ı	123	7368	7400	7412	7424		٠							
OMIT 1	1	1	7484	7496	7508	7520					•				
DÀITI	l	123	7EC3	7806	7811	7814			•				, .		
OM IT I	1	123	7867	7870	7875	17878							•		
FIGC		ı	INV	. NAX				:			•		E.F	t GC 1	
SEIGO	1	C • C	300.	0.0	2000.	150.		7							
PARAM	t "	NOK 4	1			•									
FAFAM	4 -	TPNAMES	SRMP2												
ENCCA	ATÀ														

TOTAL COUNT= 214

*** USER INFORMATION MESSAGE 207. BULK DATA NOT SORTED. ASORT WILL RE-CROPE DECK.

REAL FART OF COMPLEX EIGENVECTORS

SORTED BULK CATA ECHO . 4 .. 2 ... 3 CEUNT 5 ... 6 .. 7001 7057 1 1-CONFCD 1. .0000001 74.738 -30.494 6.138 2-CORD2C 10C 696 200.0 -30.494 6.138 & CS SRM 74.738 C.C 3-&CSSFM C + 0 101 696 74.738 -30.494 6.138 74.738 -28.570115.6563 ERSSEM 4- COFUER 5-ERSSRM 200. 6-CORD2R 696 -30.494 6.138 0 ...c -81.5683.0 35.5985 -80.2278.0 E7.5136 &FSTANK 7-ERSTANK CE.25 48.432 8-E16C 1 INV KAM E E I G C I 150. 9-EEIGC1 C.C 300. 0 • C 2000. 100 9.750 6561 180.000 25.242 456 10 - GR ID 100 65C4 : 11- GR ID .100 90.000 25.242 100 456 €907 0.000 12- CR ID 100 5.750 25.242 100 456 5.750 13- CRID £91C I C C -90.000 25.242 100 456 5.750 10C 180.000 44.500 100 7001 456 14- CR ID 3.180 180.000 44.500 100 456 1,5- GR ID 7064 100 100 16- GR ID 7013 5.75C 90.000 44.500 100 456 3.180 90.000 44.500 100 100 17- GR ID 7016. 456 18- GRID 7025 100 5.750 0.0 44.500 100 456 100 702E 2.180 100 19- CR ID C. 0 44.500 100 456 7037 5.75C -90.000 44.500 100 45F 20- GR ID 704C 100 3.180 -90.000 44.500 100 21- GR ID 456 5.7EC 22- GR ID 7057 100 180.000 69.053 100 456 100 180.000 69.053 100 71CC 3.180 456 2.1- GRID 24- GR ID 71(9) 100 5.750 90.000 69.053 100 456 100 90.000 69.053 100 25- GRID 3.160 456 7112 1 0 C 25- GR ID 7121 5.75C 0.0 69.053 100 456 0.0 69.053 100 -90.000 69.053 100 -90.000 69.053 100 27- GR ID 7124 10C 3.180 0.0 456 1.00 28- GR ID 7133 5 • 75.C 456 29- GRID 7136 10C 3.180 45€ 7193 30- GR ID 180.000 93.607 100 100 9.750 456 2.180 31- GR ID 715€ 100 180.000 93.607 100 456 1 C C 32- GR 1D 72C5 5.750 90.000 93.607 100 456 33- GR ID 72(8 3.180 90.000 93.607 100 456 93.607 100 93.607 100 34- GR 10 72.17 100 5.750 3.180 c 0.0 456 35- GR ID 722C LCC C. O 456 -90.000 93.607 100 36-GRID 7229 10C 456 37- GRID 7232 , 10C -90.000 93.607 100 3.180 456 39- GR ID 72 89 100 9.78C 180.000 118.160 100 0 39- GR ID 7290 100 180.000 118.160 100 456 7.560 7291 100 40-GRID 5.370 180.000 118.160 100 456 100 41-GRID 7292 3.180 180.000 118.160 100 456 42-GRID 7253 . 10C 5.750 150.000 118.160 100 ٥ 7294 100 7.560 150.000 118.160 100 43-GRID 456 100 44-GRID 7295 150.000 118.160 100 5.370 456 45-GR ID 100 150.000 118.160 100 7256 3.180 456 100 46- CR ID 7257 S.75C 120.000 118.160 100 0 . 47-GRID 7258 100 7.560 120.000 118.160 100 456 5.370 3.180 120.000 118.160 100 120.000 118.160 100 48-GRID 7299 10C 456 49-GRID 7300 1 C C 456

90.000 118.160 100

50-GR ID

7301 ... 100

5.75C

	S O R T =	D BULK	DATA	ECH	c .	
CARC		•				
CCUNT . 1 2	.3 4	5	6	7	А	9 10
51-GRID 7302 100	7.560	90.000 1	18.160 100	456	•	, ,
52-GRID 7303 100	5.370	50.000 1	18.160 100	456		
53-GRID 73C4 10C	3.160	5C. 0CO 1	18.160 100	456		
54-GRID 7305 100	9.750	60.000 4	18.160 100	0	•	•
55-GFID 73C6 100	7.56C	60.000 1	18.160 100	456	. ·	•
56-CPID 73C7 1CC	5.37C		18.160 100	45€		
57- GR ID 73CE 1CC	3.160		18.160 100	456		
58- CR ID 7209 100	4.750	5.7	18.160 100	0		4 '
57-GRID 7310 100	7.560		18 - 160 100	456		· · · · · · · · · · · · · · · · · · ·
60-GRID 7211 1CC	E.370		18.160 100	456	+ 1	
61-GRID 7312 ICC	3.180		18.160 100	456		
62-GHID 7213 100	5.7EC		18-160 100	0		
63-GRID 7314 1CC	7.56C	. '	18.160 100	456		
64-GRID 7315 10C	5.37C		18.160 100	456	* . *	*
65-GRID 7216 10C	3.180	, ,	18.160 100	456		
65-GRID 7317 1CC			18.160 100	0		
67-GPID 7318 1CC	7.560	1.4		456		• • • • •
58-GRID 7319 1CC	5.370			456		
59-CRID 732C 1CC	3.180		18.160 100	456		
70-GR 10 7321 1CC	5.750		18.160 100	0		
71-CRID 7322 1CC	7.56C		18.160 100	456		
72-GRID 7323 100	5.37C		18.160 100	456		
73-GRID 7324 10C	3.180	the second secon	18.160 100	456		
74-GRID 7325 1CC	5.750		18.160 100	0		
75-GPID 7326 100	7.56C	-90.000 1		45 <i>6</i>		
76-GRID 7327 10C	5.370	•	18.160 100	456		
77-GRID 7328 1CC	3.160		18.160 100	456		
79-GRID 7329 100	5.750		18.160 100	0.		
73-GRID 7330 100	7.560	and the second s	18.160 400	456	1.0	
80-GRID 7331 1CC	5.370	-120.0001	and the second second	451		
91-GRID 7332 100	3.1PO		18-160, 100	456	•	
92- GR ID 7333 100	5.75 C		18.160 100	o		
83- CRID 7834 100	7.560		18.160 100	45%	. • •	
84-GRID 7335 100	5.370	-150.0001		456		
65-GRID 7336 10C			19.160 100	41.1		
96-GRID 7385 10C	5.750		2.713 100	456	•	
87-GPID 7366 1CC	3.18C	1 80. 360 1		44.0		1
99- CPID 7397 1CC	5.75C		2.713 100	457		
87- CR ID 7400 1CC	3.180		42.713 100	456		
90- GR ID 7409 100	9.75C		2.713 100	456		
91-CRID 7412 1CC	3.180		12.713 100	45.6		
92-GRID 7421 100	4.750		2.713 100	456		, ,
93-GRID 7424 1CC	3.180		2.713 100	45€		
94-CRID 7481 10C		,	57.267 100	456		
95- GRID 7484- 10C	3.180	*	7.267 100	456		
96- CR ID 7493 100			57.267 100	456	٠	
57-GPID 7496 10C	3.190	* .	7.267 100	456	•	
98- GRID 7505 10C	5.75C		7.267 100	456		
97- CR ID 7508 100	3,180		7.267 100	456	-	•
100-CRID 7517 1CC	5.75C		57.267 100	45€		•

REAL FAFT CF CCMPLEX EIGENVECTORS

SCRIED BULK DATA CCUNT. 5 6 3. .. 7520 100 3.180 -90.000 167.267 100 101-GRID 456 102- GR ID 7801 100 5.75 180.0 196.25 100 456 DI RD-EOL 7.8 C 3 1 C C 5.43657 131.383 196.25 456 100 104-GRID 78.05 TOC 5.75 90.0 196.25 100 456 10 5- GR ID 780€. 100 5.43657 71.383 196.25 100 456 9.75 106-GRID 7605 10C 0.0 196.25 100 456 10C. 107-GRID 1195 5.43657 -48.617 196.25 456 100 108-GR ID 100 9.75 -90.0 196.25 7613 456 100 109-GRID 7614 10C 5.43657 -108.617196.25 100 456 110-GP10 100 7865 15.25 180.0 217.94 100 456 100 14.75977131.383 217.94 456 111-GR ID 7867 100 100 112-CR ID 1665 15.25 90.0 217.94 100 456 113-GR.ID . 1CO 7670 14.7597771.383 217.94 456 100 114- GR ID 7873 100 15.25 0.0 217.94 100 456 100 14.75577-48.617 217.94 115-GRID 7675 100 45€ 100 116-GRID -90.0 456 7677 15.25 217.94 100 7878 - 10C 14.75577-1 08.617217.94 456 117-GRID 100 119-GR ID 696 -19-41073-9071 99.98 45F 6134 100 101 119-GR ID 6362 196.25 13.872589.75 101 456 120-GR 10 £355 101 196.25 13.87258-9.75 101 456 121-MAT1 1 10.56€ • 3 : 122-MPC 1.0 6050 6907. 8134 -1.0 70C4 7016 7028 7040 123-0MIT1 1 7292 7304 7316 124-0MIT1 7328 125-0MIT1 7484 7496 7508 7520 1 126-0M IT 1 23 7097 7109 7121 7133 127-0M IT 1 7193 7205 7217 23 7229 128-0MIT1 23 7365 7397 74 09 7421 129-CM IT 1 123 71 CC 7112 7124 7136 7156 72CE 7220 130-0MIT1 123 7232 7290 131-0MIT1 123 7291 7294 7295 7296 7298 7299 132-0MIT 1 7308 7310 73CC 7302 7303 7306 7307 123 -133-0MIT1 123 . 7311 7312 7314 7315 7318 7319 7320 7322 134-0MIT1 123 7323 7324 7326 7327 7330 7331 135-CM [T 1 7332 7334 . 123 7335 7336 136-0MIT1 123 738€ 7400 7412 7424 137-CM IT 1 7803 123 7866 7811 7814 138-0MIT 1. 123 7867 7870 7875 7878 139-0MIT 1 7285 7301 7313 7325 456 140-CM IT 1 123456 7293 7257 7305 7309 7317 7321 7329 141-0MIT1 123456 7333 142-PARAM NOK4 143-PARAM TPNAMES SRMP2 65 (1 7001 7013 144-PLOTEL é C C I 6011 6904 145-PLOTEL ecc2 70C1 7057 6012 7013 7109 146-PLUTEL 7057 7193 6013 7109 7205 ECC3 7289 7301 7153. 147-PLOTEL ECC4 6014 7205 148-PLOTEL 6005 7285 7385 6015 7301 7397 7385 149-FLOTEL CCC6 7481 7493 6016 7.397 150-PLOTEL CCC7 7461 7661 7805 6017 7493

3

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CARE		` .	•	•		•	,		
CCUNT . 1		•• 3	4	. j5	• • •	7	• • .B	•• • 9	• • 1C
151-PLOTEL	. 60CE .	78C1	7865		6018	7805	7869		
152-PLUTEL	e à c s	7 E C 3	7867	•	6019	7811	7475		
15J-PLOTEL	6021	6567	7025		6031	6910	7037		
154-PLOTEL	€022 .	7025	7121.		6032	7037	7133		
155-PLOTEL	€023	7121	7217		6033	7133	7229		
156-PLOTEL	6024	7217	7313		6034	7229	7325		
157-PLOTEL	€ C 2 €	7313	7469	-	6035	7325	7421		•
158-PLOTEL	6026	7465	7505		6036	7421	7517		
159-PLOTEL	€C27	7505	7805		6037	7517	7813		
160-PLUTEL	6028	7869	7673		6038	7813	7877	,	
151-PLUTEL	6029	78C6	7870		6039	7814	7878		•
162-PLOTEL	6 C 4 I	6901	6504		6051	7097	7109		
163-PLOTEL	. EC42	69C4	6967		6052	7109	7121		
164-PLOTEL	6043.	6907	691C		6053	7121	7133		+ 1, - +
165-PLOTEL	6044	691C	6901		6054	7133	7097		
166-PLOTEL	6045	7001	7013		6 055	7193	7205	7	
167-PLOTEL	6046	7013	7625	•	605g	7205	7217		
158-PLOTEL	€ C 4 7	7025	7037	•	6057	7217	7229		
169-PLQTEL	€ C 4 P	7037	7061		6054	7229	7193		,
170-PLOTEL	6061	7285	7301		6065	7385	7397		•
- 171-PLGTEL	6 C 6 2	7301	7313	-	. 6065	7347	7409		•
172-PLOTEL	6063	7313	7325		6067	7409	7421		
-173-PLOTEL	€C€4	7325	1285	-	6068	7421	7.385,	• .	
174-FLOTEL	£C71	74 E I	7493		6041	7801	7803		
175-PLOTEL	£ C 72	7493	7505		BRUS	7803	7805	:	
176-PLOTEL	€073	7505	7517		6083	7805	7806	,	
177-PLOTEL	ec14	7517	7481		6084	7806	7809		
173- PLOTEL	6051	7865	7667		6085	7809	7811		
179-PLOTEL	€ C 5 2	7867	7865		6086	7811	7813		
180-PLOTEL	€ € € 3	7865	767C		6087	-7813	7814	•	
181-PLCTEL	EC54	767C	7673		6628	7814	7801		
182-PLOTEL	ECSE .	7873	7875		6075	6907	8134		٠.
193-PLOTEL	€05€	7675	7677		6076	7805	0352 "		
184-PLOTEL	ecs7	7877	7878		6.077	7809	8355		
165-PLOTEL	6058	7878	7865		6078	7813	8355		
186-PLOTEL	£101 .	7004	7016		6111	7196	7208		
187-PLCTEL	€102	7016	- 702e		. 6112	7,208	7220		
199-PLOTEL	6103	7028	7640		6113	7220.	7232		
139-PLOTEL	£1C4.	704C	7004		6114	7232	7106		
190-PLOTEL	€105 🖖	71 C C .	7112		6115	. 7292	7304		•
191-PLOTEL	6166	7112	7124		6115	7304	7316		
192-PLOTEL	6167	7124	7136		6117	7316	7329		
19J-PLOTEL	ELCE	7136	71CC		6118	7328	7292		
194-PLOTEL	6121	7388	74CC						
195-PLOTEL	€122	74CC	7412	•					
196-PLOTEL		7412	7424					• •	
197-PLOTEL	6124	7424	7268						•
199-PLOTEL	6125	7484	7496	,			• .		
199-PLUTEL	6126	7456	75CE						
200-PLOTEL		7506	2520		4.	•		•	

FHASE 1 (F/FT 2)

		. 5	O.R.T.E.	D B U	FK D	ATA	ECFC		
CARD									
CCUNT . I	•• 2	3	4	•• 5	6	7	8	9	10
201-PLOTE	L 6128	7520	7484						
202-FLOTE	Ĺ 6131	7001	7004		6141	7013	7016		
203- FLOTE	L 6132	7097	7100	•	6142	7109	7112		
20 4- PLOTE	L 6133	7153	7156		6143	7205	7208	•	
205- PLOTE	L 6134	7285	7292	•	6144	730 i	7304		
206-PLOTE	L 6135	7385	7388		6145	7397	7400		
207-PLOTE	L 6136	7481	7484		6146	7493	7496		
208- PLOTE	L 6151	7025	7028		6161	7037	7040		
209-PLOTE	L 6152	7121	7124		6162	7133	7,136		
210-PLCTE	L 6153	7217	7220		6163	7229	7232		
211-PLOTE	L 6154	7313	7316	**	6164	7325	7328	•	
212- PLOTE	L -6155	7405	7412	•	6165	7421	7424		
213-PLOTE	L 6156	7505	7508	•	6166	7517	.7520		
ENCCA	TA			* 1 ·			. *		

FHASE 1 (PART 2)

FEAL FART OF COMPLEX EIGENVECTORS

COMPLEX EIGENVALUE SUNNARY

TCOR	EXTRACTION	Ε	IGENVAL	UE		FREQUENCY	DAMPING
NO.	ORDER	(RFAL)		(IMAG)		(CYCLES)	COEFFICIENT
1	2	-4.541 FE4E	CC	3.527739E	02	5.614571E 01	2.PC1717E-C2
2	1	-4.9412C4E	c c	J. 528157E	02	5.615236E 01	2.801012E-C2
3	4	-2.42661CE	C 1	8.586082E	02	1.366517E 02	5.652427E-C2
4	3	-2.43151EE	CI	8.587512E	02	1.366745E 02	5.663848E-C2
5	. 5	-7.174017E	C 1	1.057418E	03	1.68293JE 02	1.3568936-01
5	€ .	-3.236357E	C 1	1.225925E	03	1,951121E 02	E.279860E-02
7	7	-4.693512E	C 1 .	1.409203E	03	2.242816F 02	6.661224E-C2
' 4	€	-4.70525EL	Cl	1.41 C094 E	03	2.244235E 02	6.67367CE-C2
ý	ç	-4.23546CE	cċ	1.5434 E4 E	03	2.456532E 02	5.48918CE-C3
10	1 C	-4.45CE32E	СC	1.692409E	03	2.693552E 02	5.3C7C26E-C3
1 1	. 11	-1.174CC3E	C 2	2.016089E	03	3.208704E C2	1.164634E-C1
12	12	-1.177475E	CS	2.018257E	03	3.212153F 02	1.166824F-01

MOITAROGROS SORSA NAMNURS

BITH PAGE, NEW YORK 11714